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<222> (12)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (29)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (2155)
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<223> n equals a,t,g, or c

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<220>
<221> misc feature
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<222> (1731)
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<211> 2825

<212> DNA <213> Homo sapiens

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1430

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<211> 952

<212> DNA

<213> Homo sapiens

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<210> 680
<211> 2309
<212> DNA
<213> Homo sapiens
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<221> misc feature
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<211> 451
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<213> Homo sapiens
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<221> misc feature
<222> (419)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (428)
<223> n equals a,t,g, or c
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PCT/US00/05988

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<222> (420)
<223> n equals a,t,g, or c
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<222> (793)
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<210> 684
<211> 1251
<212> DNA
<213> Homo sapiens
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<220>

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<222> (1249)
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<213> Homo sapiens
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<221> misc feature
<222> (38)
<223> n equals a,t,g, or c
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<222> (57)
<223> n equals a,t,g, or c
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<210> 686

<211> 4641

<212> DNA

<213> Homo sapiens

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<210> 694

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tatgagccgc cgggtcamcc aatgccccag cctgggttya tcccaccama catgagtnca 420
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<223> n equals a,t,g, or c
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<222> (114)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (534)
<223> n equals a,t,g, or c
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ttaggaggga tatgagggtg actaaaaagt taaatttttc taatgtgaac ttttatttat 180
gttggcttgt atcttacaat ttgtaatttt aaagtcatgt taggccaatg raatgtgagc 240
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<223> n equals a,t,g, or c
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<221> misc feature
<222> (477)
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cactggatcc aaagtttaga gaggttcccc ttccctccag cctccttcct ggcccaacag 180
aggagcaccc caccacctc catcagctgc tcaaaaccca caagggaaaa atccctacag 240
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tggccaggca cagcaacgtg aatctcacca tcttcaccgc ccgcctctac tacttccagt 480
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<211> 1675
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<222> (502)
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<222> (831)
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<222> (847)
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WO 00/55174
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519

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<210> 706

<211> 1155

<212> DNA

<213> Homo sapiens

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<222> (36)
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<210> 707
<211> 1417
<212> DNA
<213> Homo sapiens
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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (1392)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (1399)
<223> n equals a,t,g, or c
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<222> (1404)
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aaggaactaa gtgagtacat ctccagttgc ccatgaaagc ataagtttgt tttcctcagc 180
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aaaggtgtac atggctattg tttcacctgg agaaaccaca tgattgggac ctgaaggttt 300
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<211> 1329

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<213> Homo sapiens
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<210> 710
<211> 534
<212> DNA
<213> Homo sapiens
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<222> (529)
<223> n equals a,t,g, or c
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<210> 711
<211> 1143
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PCT/US00/05988

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<222> (1110)
<223> n equals a,t,g, or c
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<211> 3779
<212> DNA
<213> Homo sapiens
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<221> misc feature <222> (3758) <223> n equals a,t,g, or c

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<222> (1017)
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<212> DNA

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<220>

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<222> (2096)

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<223> n equals a,t,g, or c
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<211> 574
<212> DNA
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<220>

<221> misc feature

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<222> (547)
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<211> 2086
<212> DNA
<213> Homo sapiens
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<222> (1863)
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PCT/US00/05988

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551

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<222> (860)
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262

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<211> 1605

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c
<400> 781
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gagccccgga ggtcgaggct acagtgagcc aagagtgcac tactgtactc cagccagggn 120
aagagagcga gaccctgtct caataaataa ataaataaat aaataaataa ataaataaaa 180
acaaagttga ttaagaaagg aagtataggc caggcacagt ggctcacacc tgtaatcctt 240
gcattttgga aggctgaggc aggaggatca ctttaggcct ggtgtgttca agaccagcct 300
atgaaacaaa ttagaatgtt atttatgttc taagtgcctc cagttcaaaa ttttttggat 420
ntttgagntn tggttacgga atacgttagg gggccaaang gatttgtaag tctttaatgc 480
cgttttttca gaaaccta
                                                               498
<210> 782
<211> 541
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
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<222> (29)
<223> n equals a,t,g, or c
<220>
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<222> (319)
<223> n equals a,t,g, or c
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<222> (333)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (350)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (371)
<223> n equals a,t,g, or c
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<222> (374)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (390)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (396)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (431)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (443)

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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (499)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (539)
<223> n equals a,t,g, or c
<400> 782
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ggagtgcaat ggcatgatct cagctcactg caaccttcgc ctcctgggtt caagcgattc 120
tcctgcctcc gcctcctgag tagctgggat tataggcaca caccaccacg cccagctaat 180
tttttgtatt tttagtagag acagagtttc accatgttgg ccaggctggt cttggaactc 240
ctggaccttg tggatccacc cacctcggcc tcccagagtg ctggggatta cagggcatga 300
gccaccacgg cttgggctna aggaacacct aanttttatg tttcttgggn tcaaaaacca 360
gtttccattc nnangttgtc ctcacaagan ggttantggt ggtggagaca gcaggggagg 420
gagggaagag ngtggtttgt aantggttca antcaggcan taagcgattt tagctttaat 480
ttaaagtett engteeagnt ttaageactt ggtaagaeag ggetggaagt agettttena 540
а
                                                                    541
<210> 783
<211> 586
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (25)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (28)
 <223> n equals a,t,g, or c
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 <221> misc feature
 <222> (30)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c
<220>
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<222> (352)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (359)
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<220>
<221> misc feature
<222> (373)
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<220>
<221> misc feature
<222> (426)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (435)
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 <221> misc feature
 <222> (441)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (458)
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<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (482)
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<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (490)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (554)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (569)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (577)
<223> n equals a,t,g, or c
<400> 783
gggtcgaccc acgcgtccgc gatgncgngn canacttccg gtgtgggtga cgagtggtgg 60
ccgaagcagg gggacagcaa gggacgctca ggcgggcgac catggcggac ggcggctcgg 120
agegggetga egggegeate gteaagatgn aggtggaeta eagegeeacg gtggateage 180
```

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gcctacccga gtgtgcgant agccaaggaa ggaagacttc aagaagtcat tgaaaccctt 240
ctctctctgg aaaagcagac tcgtactgct tccgatatgg tatcgacatc ccgtatctta 300
 gttgccagta gtggaagatg tgctaatgan ggctaaaaga atgggattta anttaatgna 360
 aaatgattat gcntttgtcc caaaaggcgg attcagttta aaacaagctg ttgcccaaaa 420
 tggttncaac atggncgtac nttatgtttg aaggaaantc acagaacntt cccatccaaa 480
cnttngattn aattgataat cccacgaatg ggtttaccga ggccaagatt ttatgttgga 540
aatggagcgt gcgnactgga tcaaaaccnt agccacnatt aaagga
<210> 784
<211> 226
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c
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gcccagtctc tactcagcac cgaccgggag gcctccatcg acatcctcca ctccatcgtg 120
aagcgtgaca ttcaggaaaa cgatgaagag gcagtgcaag tcaaagagca gagcatcctg 180
gaactgggat ctctcctggc aaagactnga caagctgcag agctta
                                                                    226
<210> 785
<211> 356
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (251)
 <223> n equals a,t,g, or c
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<221> misc feature
<222> (254)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c
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gatgtattag ggtgcagcgc tcattgttcc ttgacgcaga gtcccaaaat gaatatccaa 120
gagcagggtt tccccttgga cctcggagca agtttcaccg aagatgctcc cccgancccn 180
agtgcctggt gaggaggag aactggtgtc cacagacccg aggcccgcca gctacagttt 240
ctgctccggg naangtgttg gcattaaagg tgagacttcg acggccactc cgaagcgctc 300
ggntctngac ctggggtatg agcctgaggn agtgcttccc naacccanca taattt
<210> 786
<211> 512
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c
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<220>
 <221> misc feature
 <222> (58)
 <223> n equals a,t,g, or c
 <220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (318)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c
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<220>

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<221> misc feature
<222> (349)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (458)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (486)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (508)
<223> n equals a,t,g, or c
<400> 786
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cacgtgcccc aagatcaagc aggaggcggt ctcttcgtgc acccacttgg gcgctggacc 120
ccctctgcag caatggccac cggcgggctg ccacacggac ttccccctgg ggacggcant 180
tccccagcag gacttacccc ggaccctggg tcttgaggga agtgctgagc agcaggggac 240
tgttcaccct gccctgccgg tttcctnccg ggtttccatc cccacccggg ggcccaattt 300
acccatnnct ttcctngncc ccattcagat gcagccgnaa gttnccgnnc gttncattaa 360
ccaaggggtt tatgccaacc ggttnctgga tgccaaagga ggcccaagtc aaaggggggn 420
aaggaggttg tgggccccgg aaaaggaccg gcaaccanat tttgattang gggtttggga 480
aaaacnttca aaaaaggggt tttcccantt tt
                                                                   512
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<211> 339
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c
<220>
<221> misc feature.
<222> (294)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c
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gctgcgcgc cgcggagcgg cctgggccgg cggcctcctg catcgggcgg ccccctgcag 60
cctcctgccc aggctccgga catggacatc ttccagcaac agatctcgag aagacagctg 120
gctaaaatcc ttatttgtcc ggaaagttga tccaagaaaa gatgcccact ccaatctcct 180
atccaaaaag gaaacaagca atctatacaa attacagttt cacaatgtta aaccggaatg 240
cctagaanca tacaacaaaa tttgtcaaga ggtgttgcca aagattcacg annnataaac 300
actaccettg tactttggtt gggggacttg gnaacacgt
                                                                    339
<210> 788
<211> 405
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c
<400> 788
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gcgtctgccc tggagcagtt cgtgaacagt gtccgacagc tctcagctca aggtttgtga 120
agttttctat gcccagtgtt cctgacttcg aaacgctatt ctcacaggtt cagctcttca 180
tcagcacttg taatggggag cacattcgat atgcaacaga cacttttgct gggctttgcc 240
atcagctaac aaatgcactt gtggaaagaa aacagcccct gcgaggaatt ggcatcctta 300
agcaagccat agacaagatg cagatgaata caaaccagct gacctcaata catgntgatc 360
tctgccagct tgtttgctag caaaangnct tnagctngcc cttca
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<210> 789
<211> 518
<212> DNA
<213> Homo sapiens
<220>
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<222> (380)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (413)
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<222> (450)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (461)
<223> n equals a,t,g, or c
<220>
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<221> misc feature
 <222> (479)
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 <221> misc feature
 <222> (501)
 <223> n equals a,t,g, or c
 <220>
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 <222> (515)
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cgggaattcc cgggtcgacc cacgcgtccg cttcctgccg tcgcgtttgc acctcgctgc 120
tccacctctg gggcgcattc caaccttcca gcctgcgacc tgcggagaaa aaaaattact 180
tattttcttg ccccatacat accttgaggc gagcaaaaaa attaaatttt aaccatgagg 240
gaaatcgtgc acatccaggc tggtcagtgt ggcaaccaga tcggtgccaa gttctgggag 300
gtgatcagtg atgaacatgg gcatcgaccc caccgggcac ctaccacggg ggacagcgac 360
ctgccagctg ggaccgcatn ttctgtgtac tgacaatgga agccacaggt ggnaaatgat 420
gtttcctcgt ggccatcctg gtgggatctn agaacctggg naccatggaa tctggttgng 480
ttcaggtccc ttttgggcca ntgttttaga ccagngaa
                                                                    518
<210> 790
<211> 386
<212> DNA
<213> Homo sapiens
<400> 790
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cctacagcta tcgccagtcg tcggccacgt cgtccttcgg aggcctgggc ggcggctccg 120
tgcgttttgg gccgggggtc gcttttcgcg cgcccagcat tcacgggggc tccggcggcc 180
geggegtate egtgteetee geeegetttg tgteetegte eteetegggg ggetaeggeg 240
gcggctacgg cggcgtcctg accgcgtccg acgggctgct ggcgggcaac gagaagctaa 300
ccatgcagaa cctcaacgac cgcctggcct cctacctgga caaggtgcgc gccctggaag 360
cggccaacgg cgagctagag gtgaaa
                                                                   386
<210> 791
<211> 470
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (324)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (402)
 <223> n equals a,t,g, or c
 <220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c
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ttttgctttg ctggacttct tataggccag actgaagtgg atatcatgag tnatgctaca 120
caggetatat ttgaaatact ggagaaatee tggttgeece agaattgtae actggttgat 180
atgaagattg aatttggtgt tgatgtaacc accaaagaaa ttgttcttgc tgatgttatt 240
gacaatgatt cctggagact ctggccatca ggagatcgaa gccaacagaa agacaaacag 300
tcttatcggg acctcaaaga agtnactcct gaagggctcc aaatggtaaa gagaaacttt 360
gagtgggttg cagagagat agagttgctt ttgaaatcag anagtcagtg cagggttgta 420
gtgttgangg gctctacttc tgatcttggt cactgtgaaa aaatccagga
<210> 792
<211> 428
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (204)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (233)
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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c
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<221> misc feature
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<223> n equals a,t,g, or c
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<221> misc feature
<222> (277)
<223> n equals a,t,g, or c
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<222> (280)
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<222> (311)
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<220> ·
<221> misc feature
<222> (320)
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<222> (391)
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<222> (421)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (422)
<223> n equals a,t,g, or c
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ccgggcattg ctgacaggat gcagaangag atcaccgccc tggcgcccag caccatgaag 120
atcaagatca togcaccocc agagogcaag tactoggtgt ggatoggtgg ctocatootg 180
gcctcactgt ccaccttcca gcanatntgg attacaagca ggagtacnac aantcgggnc 240
cctccatcgt ccaccgcaaa tgcttctaac ngactcncan atgcttacca ttgctgcatg 300
99ttaattaa naataaaaan tttgcccctg gcaaatgcac acacctcatg cttacctccc 360
caaaattgga ataanccttc caaaaaaaa ntgttcctta aaacttgttt tcttaatttc 420
nnccttgg
                                                                    428
<210> 793
<211> 526
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (170)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (303)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (327)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (329)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (451)
<223> \vec{n} equals a,t,g, or c
<220>
<221> misc feature
<222> (467)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (476)
<223> n equals a,t,g, or c
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<220>

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<221> misc feature
<222> (509)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (522)
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ccgtcctgca gcagtctgcc tcctcttca acatgacaga tgccgctgtg tccttcgcca 120
aggacttcct ggcaggtgga gtggccgcag ccatctcaag acggcggtan gcccatcgag 180
cgggtcaagc tgctgctgca gttgcaatgc cagcaagcag atcactgcag ataagcaatg 240
caaaggcatt atagactgcg tggtccgtat tcccaaggag caggattctg tccttctggc 300
gengtaactg gecatgical cagatanine ceanceaggi tettaatite gnetticaag 360
nttaatacaa gcanatnttc nggggtggtg tggnacanga gaacccattt tggggctaan 420
ttgcagggaa tttgggcatc gggtggttcc ncgggggcca aattccnggg ttttgngtaa 480
cccctggaat ttgcccgtaa ccgtttaana ttgatttggg gnaaaa
<210> 794
<211> 458
<212> DNA
<213> Homo sapiens
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<222> (377)
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<221> misc feature
<222> (398)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (434)
<223> n equals a,t,g, or c
<220>
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 <222> (443)
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ggacctcctg gattggcagg ggccccagga cttagaggtg gaactggtcc ccctggtccc 120
gaaggaggaa agggtgctgc tggtcctcct gggccacctg gtgctgctgg tactcctggt 180
ctgcaaggaa tgcctggaga aagaggaggt cttggaagtc ctggtccaaa gggtgacaag 240
ggtgaaccag gcggtccagg tgctgatggt gtcccaggga aagatggccc aaggggtcct 300
antggtccta ttggtcctcc tggcccagtt ggccagcctg gagataaagg gtgaaggtgg 360
tgcccccgga tttccangta taagttggac ctgtggtnag cctggtgaga gaggtgaaat 420
ggccttncag gacngttggt ttncctggtg ttcctgga
                                                                    458
<210> 795
<211> 497
<212> DNA
<213> Homo sapiens
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<220>
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<222> (234)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (238)
<223> n equals a,t,g, or c
<220>
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<222> (312)
<223> n equals a,t,g, or c
<220>
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<221> misc feature

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<222> (328)
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<220>
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<222> (356)
<223> n equals a,t,g, or c
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<222> (361)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (368)
<223> n equals a,t,g, or c
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<222> (369)
<223> n equals a,t,g, or c
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<222> (383)
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<222> (394)
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<221> misc feature
<222> (397)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (411)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (416)
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<221> misc feature
<222> (439)
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<220>
<221> misc feature
<222> (442)
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<222> (467)
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<222> (480)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (485)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (492)
<223> n equals a,t,g, or c
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ccgccgccgc catgggctgc acgttgagcg ccgaagacaa ggcggcagtg gagcgatgaa 180
gnatgatcga ccgcaactta cgggaggacg gggaaaaagc ggccaaagaa gtgnaagntg 240
ctgctacttc ggtgctggag aatctggtta aaagcaccat ttgtgagaca gatgaaaatc 300
atttcatgag gntgggtatt cagaggtnga atgttaaaca atattaaagt tagttntttt 360
ncagcatnnt tgttncagtg contcattgc aatnttnagt ggccttggga ngggtnaaaa 420
aattgatttt ggggaantnt cncagggcaa ttgttgcccg gcaattnttt nttntagntn 480
gtcanttttt tngaggg
                                                                    497
<210> 796
<211> 497
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
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<223> n equals a,t,g, or c
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<221> misc feature
<222> (330)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (396)
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<223> n equals a,t,g, or c

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 <222> (408)
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 <222> (410)
 <223> n equals a,t,g, or c
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<222> (429)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (460)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c
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tgacgctgcg gtaccggtcc ctggtgtacc agctgaactt tgatcagacc ctgaggaatg 120
tagataaggc tggcacctgg gccccccggg agctggtgct ggtggtccag gtgcataacc 180
ggcccgaata cctcagactg ctgctggact cacttcgaaa agcccaggga attgacaacg 240
tectegteat etttageeat gattetggte gacegagate aateagttga tegeeggggt 300
tganttctgt tccggttttg caggtgtttn tttncntttc aagcattcaa ttgttancct 360
aacgagtttt ccagtaagtg gaccncagag gatttntccc agagaacntn ccgaagaatg 420
ccctttttna aattgggggc ancaaattga ggtttcccgn tttttgggca tttaaggggg 480
gggcnaattt ttccagg
                                                                    497
<210> 797
<211> 589
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (493)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (495)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (536)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (538)
<223> n equals a,t,g, or c
<220>
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<222> (580)
<223> n equals a,t,g, or c
<400> 797
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gtcgtgactg ggaaaaccct ggcgttaccc aacttaatcg ccttgcagca catcccctt 180
tegecagetg gegtaatage gaagaggeee geacegateg ecetteeeaa cagttgegea 240
nctgaatggc gaatgggacg cgccctgtag cggcgcatta agcgcggcgg gtgtggtggt 300
tacgcgcagt gaaccgctac acttgccagc gccctagcgc ccgctccttt cgctttcttc 360
ccttcctttc tcgccacgtt cgccggcttt ccccgtcaag ctctaaatcg ggggctcctt 420
tanggttccg atttagtgct ttacgggcac ctcgacccca aaaaaacttg attangggta 480
atggntcacg tantngggcc atcgccctga tagacggttt ttcgcctttg acgttngngt 540
```

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ccacgttctt aataagtggg atcttgttca aaactggaan aacactcaa
                                                                      589
   <210> 798
   <211> 169
   <212> DNA
   <213> Homo sapiens
   <220>
<221> misc feature
  <222> (9)
<223> n equals a,t,g, or c
   <220>
   <221> misc feature
   <222> (23)
   <223> n equals a,t,g, or c
   <220>
  <221> misc feature
   <222> (28)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (42)
  <223> n equals a,t,g, or c
  <220>
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  <222> (77)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (162)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (165)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (168)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (169)
  <223> n equals a,t,g, or c
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<400> 798
ctctaatana tcatatagga agnggtanct gcagtacggt cngaattccc ggctctagag 60
atccaagett aegtaengeg catgeaegte atagetette tatagtgtea cetaaattea 120
attcactggc cgtcgtttta caacgtcgtg actgggaaaa cnctntgnn
                                                                     169
<210> 799
<211> 112
<212> DNA
<213> Homo sapiens
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<222> (24)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (110)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c
<400> 799
ctctagagga tccaagctta cgtnngcgtg catgcgacgt catagctctt ctatagtgtc 60
agctaaattc aattcactgg ccgtcgtttt acaacgtcgt gantgggaan nc
<210> 800
<211> 424
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c
<220>
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<221> misc feature
<222> (373)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c
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cgtcagatcc cattcaactc agacgcttac ctgtaattct gatggcgaat gggtgtataa 120
caccttctgt atctacaaac gatgcagaca cccaggagag ttacgtaatg ggcaagtaga 180
gattaagaca gatttatctt ttggatcaca aatagaattc agctgttcag aaggattttt 240
cttaattggc tcaaccacta gtcgttgtga agtccaagat agaggagttg gctggagtca 300
tcctctccca caatgtgaaa ttgtccaagt gtaagcctcc tccagacatc aggaatggga 360
aggcacagcg gnngaagaaa atttctacgc ntaanggggt ttctgtcacc taaagntggg 420
accc
                                                                    424
<210> 801
<211> 249
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (101)
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<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (149)
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<223> n equals a,t,g, or c
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<221> misc feature
<222> (171)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (242)
<223> n equals a,t,g, or c
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ggcaggtcca cctggaccag gtggaggtgg ccagcnggct gaccctgtgc aaggagggct 60
gtnaggccat tgtngacaca ggcacttccc tcatggtggg nccggtggat gangtgcgcg 120
antgcagaag gccatcgggg ccgtgccgnt gattcanggc gagtacatga ncccctgtna 180
gaaggtgtcc accetgeecg caatnacact gaagetggga ggcaaagget acaagetgte 240
cncagagga
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<211> 402
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<213> Homo sapiens
<220>
<221> misc feature
<222> (147)
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<220>
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<222> (149)
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<222> (310)
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<222> (344)
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<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c
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gaaactctga caggtgcctt attccagcga ccccactta ttgctgcagt aaagaggcag 120
ctccgagtga ggaccatcta cgagagnana aatgattgaa tacgatcctg aaagaagatt 180
aggaatcttt tgggtgagtt gtgaggctgg cacctacatt cggacattat gtgtgcacct 240
tggtttgtta ttgggagttg gtggtcagat gcaggagctt cggagggttc gttctggagt 300
catgagtgan aaggaccaca tngtgacaat gcatgatgtg cttnatgctc agtggctgta 360
tgntaaccac aaggatgaga gtnacctgcg gggagttgtt ta
                                                                   402
<210> 803
<211> 542
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<212> DNA

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<222> (124)
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<222> (215)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c
<220>
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<222> (374)
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<222> (380)
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<221> misc feature
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<220>
<221> misc feature
<222> (400)
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<221> misc feature
<222> (403)
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<222> (406)
<223> n equals a,t,g, or c
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<222> (507)
<223> n equals a,t,g, or c
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<222> (527)
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ccacageggt ggctgccggg cgtggtgtcg gtgggtcggt tggtttttgt ctcaccgttg 120
gntnccgtgc cgttcagttg cccgccatgg ctgagctgga tccgttcggc gcccctgccg 180
gcgcccctgg ggtncccgcg ctggggaacg gatgnccggc gccggcgaag aagacccggc 240
tgcggccttc ttggcgcaaa gnagaagcga gattgcgggc atcgagaacg acgaggcctt 300
cgccatcctg gaacggcggc gccccgggc cccaaccgca aggaaagtcc ggcgnggggt 360
tccgatgctg ttgnatggan taatgnaatg gtggattatn acnagnaaat taatggttcc 420
aacanaaatt atgcagtatt tcaaaatgga tcgattgcat caaaacctga aatatcctaa 480
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atggaganag aaaatggaan nttgaancct taagccaatt tcggaancaa aaacaaatgg 540

542

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aa
<210> 804
<211> 422
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c
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<220>
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<222> (116)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c
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<220>
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 <222> (262)
<223> n equals a,t,g, or c
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<222> (303)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c
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ggacnnnccn ngtactggtg gccgtggaca agggcgtgtt cgtgctgaat aagaanaaca 120
aactgacgca gagtaagatc tgggacgtgg tggagaaggc agacatcggc tgcaccccgg 180
gcagtgggaa ggattacgcc ggtgtcttct ccgacgcagg gctgaccnnc acgagcagca 240
gtggccagca gaccgcccag anggcagaac ttcagtgccc gcagccagcc gcccgccgac 300
gcngttccgt gcagctcacg gagaagcgaa tggacaaagt cggcaagtac cccaaggagc 360
tgngcaagtg ctgcgaggac ggcattcggg agaaccccat gaagttctcg tgccagggcg 420
gg
                                                                   422
<210> 805
<211> 566
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c
<400> 805
cgagctgacc ctgatcaggg ccgagttgtc tcggcggcgc tgccgaggcc tccacccggg 60
gagggtggtt accgctgagg agctgcagtc tctgtcaaga tgatagaggt actgacaaca 120
actgactete agaaactget acaccagetg aatgeeetgt tggaacagga gtetagatgt 180
cagccaaagg tctgtggttt gagactaatt gagtctgcac acgataatgg cctcagaatg 240
```

```
actgcaagac taagggactt tgaagtaaaa gatcttctta gtctaactca gttcttggct 300
 tgacacagag acatttetet agetgtgaat taetggacag anteetgtet aaaatgaang 360
 tacagcccaa gcacctgggt gtgttggact gagctgcttt tatttggctg taaaatcaat 420
 agaagaggaa aaggatgtcc cattggcaac tgacttgatc cgaataagtc aatataaggt 480
 tacgggttca gactgatgag aatgggaaaa attgtattng agaaggtgtg tttggaagtc 540
aagctactaa tgcctttcaa ttctgc
                                                                    566
<210> 806
<211> 438
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (437)
<223> n equals a,t,g, or c
<400> 806
cccagtccta gctgctggca tcactatact actaacagac cgcaacctca acaccacctt 60
cttcgacccc gccggaggag gagaccccat tctataccaa cacctattct gatttttcgg 120
tcaccctgaa gtttatattc ttatcctacc aggcttcgga ataatctccc atattgtaac 180
ttactactcc ggaaaaaaag aaccatttgg atacataggt atggtctgag ctatgatatc 240
aattggcttc ctagggttta tcgtgtgagc acaccatata tttacagtag gaatagacgt 300
agacacacga gcatattica cotoogctac cataatcato gottatooco acoggogtoa 360
aagtattagc tgactcgcca canttccacg ggagcaatat gaaatgatct ggctgcagtg 420
ctctgagncc taaggant
                                                                    438
<210> 807
<211> 236
<212> DNA
<213> Homo sapiens .
<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c
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<220>
   <221> misc feature
   <222> (215)
   <223> n equals a,t,g, or c
   <220>
   <221> misc feature
   <222> (219)
   <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (228)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (231)
  <223> n equals a,t,g, or c
  <400> 807
  ctcgtgccga attcggcacg agaaactttc ctcactatct gcttcatccg ccaactaata 60
  tttcacttta catccaaaca tcactttggc ttcgaagccg ccgcctgata ctggcatttt 120
  gnacatgtgg tttgactatn tccgtatgtc tccatctatt gatgagggtc ttaaaaaaaa 180
  aaaaaaaaaa aaaaaaaaa aaaaaaaaa aaaancccng gggggggncc nggacc
                                                                      236
  <210> 808
  <211> 552
  <212> DNA
  <213> Homo sapiens
  <220>
  <221> misc feature
  <222> (375)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (399)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (405)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (447)
< <223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (512)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (516)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (543)
<223> n equals a,t,g, or c
<400> 808
ggcacgagtg gagaaccggg cccagcagca ctggggcagt ggagtgggag tgaagaagct 60
gtgtgaactg cagcctgagg agaagtgctg tgtggtgggc actctgttca aggccatgcc 120
gctgcagccc tccatcctgc gggaggtcag cgaggagcac aacctgctcc cccagcctcc 180
tcggagtaaa tacatacacc cagatgacga gctggtcttg gaagatgaac tgcagcgtat 240
caaactaaaa ggcaccattg acgtgtcaaa gctggttacg gggactgtcc tggctgtgtt 300
tggctccgtg agagacgacg ggaagtttct ggtggaggat tattgctttg ttgaccttgc 360
tccccagaag cccgnacccc cattgacaca gttaggttnt gttantggtg tccggcctgg 420
gcctgggtgg cgttggaggc gagagcntgt tgggcaccca ttgttggtgg atntggtgac 480
9999cagttt ggggacgaag ggnagcatgc ancgcngcca agtttcccgg ttatcctggt 540
tgnaacttct aa
                                                                   552
<210> 809
<211> 380
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (359)
```

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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c
<400> 809
ggcacgaggc tgaggcggcg ccagttggcc gggcacgggg ctgctgtaag gccgaggttg 60
cggcggaagc ggagaccatg ttccgagcgg cggctccggg gcagctccgg cgggcggcct 120
cattgctacg atttcagagt accctggtaa tagctgagca tgcaaatgat tccctagcac 180
ccattacttt aaataccatt actgcagcca cacgccttgg aggtgaagtg tcctgcttag 240
tagctggaac caaatgtgac aaggtggcac aagatctctg taaagtagca ggcatagcaa 300
aaagttetgg tggeteagea tgaatgtgta caagggetta etteeagang gaactgaana 360
cnatnatttt tggaaactcn
                                                                    380
<210> 810
<211> 416
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c
<400> 810
aagaaagtag aggacatgat gaagaagctg tggggtgacg gcccagaagt accgctgcga 60
gctcctgtac gaggggcccc cggacgacga ggctgccatg ggcattaaaa gctgtgaccc 120
caaaggccct cttatgatgt atatttccaa aatggtgcca acctccgaca aaggtcggtt 180
ctacgccttt ggacgagtct tctcggggct ggtctccact ggcctgaagg tcaggatcat 240
ggggcccaac tatacccctg ggaagaagga ggacctctac ctgaagccaa tccagagaac 300
aatcttgatg atgggccgct aagtggaagc ccatcgaagg atgtgccttg tngggacatt 360
ttgggcctcg tggcgttgga ccantccttg tgaaaacggg naccannaac aacttc
<210> 811
<211> 748
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (543)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (619)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (668)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (671)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (714)
<223> n equals a,t,g, or c
<400> 811
geogeocage caegeoteat ggageocate tacettgtgg agatecagtg tecagageag 60
gtggtcggtg gcatctacgg ggttttgaac aggaagcggg gccacgtgtt cgaggagtcc 120
caggtggccg gcacccccat gtttgtggtc aaggcctatc tgcccgtcaa cgagtccttt 180
ggcttcaccg ctgacctgag gtccaacacg ggcggccagg cgttccccca gtgtgtgttt 240
gaccactggc agatectgcc eggagacece ttegacaaca geageegeee cagecaggtg 300
gtggcggaga cccgcaagcg caagggcctg aaagaaggca tccctgccct ggacaacttc 360
```

```
ctggacaaat tgtaggcggc ccttcctgca gcgcctgccg ccccggggac tcgcagcacc 420
   cacagcacca cgtcctcgaa ttctcagacg acacctggag actgtcccga cacagcgacg 480
   ctcccctgag aggtttctgg ggcccgctgc gtgccatcac tcaaccataa cacttgatgc 540
   cgnttctttc aatatttatt tccagagtcc ggaggcagca gacacgccct cttagtaggg 600
   acttaatggg ccggtcggng agggggaggc gggatgggac acccaacact tttttcattt 660
   cttcagangg naaacttcag atgtccaaac taattttaac aaacgcatta aganggttaa 720
   tttgggtaca atgggcccga atggcttt
   <210> 812
   <211> 562
   <212> DNA
   <213> Homo sapiens
   <220>
   <221> misc feature
   <222> (4)
   <223> n equals a,t,g, or c
   <220>
   <221> misc feature
   <222> (5)
   <223> n equals a,t,g, or c
  <220>
   <221> misc feature
  <222> (8)
  <223> n equals a,t,g, or c
  <400> 812
  aagnnganac aaccctcact aaagggaaca aaagctggag ctccaccgcg gtgcggccgc 60
  tctagaacta gtggatcccc cgggctgcag gaattcggca cgagcacaat ttgcgcgctc 120
  tetttetget getececage teteggatae ageegacace atgggttteg gagacetgaa 180
  aagccctgcc ggcctccagg tgctcaacga ttacctggcg gacaagagct acatcgaggg 240
  gtatgtgcca tcacaagcag atgtggcagt atttgaagcc gtgtccagcc caccgcctgc 300
  cgacttgtgt catgccctac gttggtataa tcacatcaag tcttacgaaa aggaaaaggc 360
  cagcctgcca ggagtgaaga aagctttggg caaatatggt cctgccgatg tggaagacac 420
  tacaggaagt ggagctacag atagtaaaga tgatgatgac attgacctct ttggatctga 480
  tgatgaggag gaaagtgaag aagcaaagag gctaagggaa gaacgtcttg cacaatatga 540
  atcaaagaaa gccaaaaaac ct
                                                                      562
<210> 813
  <211> 415
  <212> DNA
  <213> Homo sapiens
  <220>
  <221> misc feature
  <222> (10)
  <223> n equals a,t,g, or c
  <220>
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<221> misc feature
<222> (15)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c
<400> 813
gaaaataagn gatgntcgan gtgaaanacc atactaaagg gncaaaantn gantcaccgc 60
ggtgcggcng tctagactag tggatccccc gggctgcagg aattggcacg aggttagttt 120
ctgcgacttg tgttgggact ggaagatgtc ttcaggaaat gctaaaattg ggcaccctgc 180
ccccaacttc aaagccacag ctgttatgcc agatggtcag tttaaagata tcagcctgtc 240
tgactacaaa ggaaaatatg ttgtgttctt cttttaccct cttgacttca cctttgtgtg 300
ccccacggag atcattgctt tcagtgatag ggcagaagaa tttaagaaac tcaactgcca 360
agtgattggt gcttctgtgg attctcactt ctgtcatcta gcatgggtca ataca
<210> 814
<211> 316
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<212> DNA

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<213> Homo sapiens
<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (154)
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<220>
<221> misc feature
<222> (177)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (186)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (245)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (247)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c
<400> 814
aaagggacaa aagenggage necacegegg ggegneeget etagaactag tggateecee 60
gggctgcagg aattcggcac agctntgggg gantcctggt gcacccccan ngggtctnct 120
ntgctgccca ttgcctaaag aagaatagcc aggnctggct gggtcggcac aacctgnttg 180
agcctnaaga cacangccag agggtccctn tcagccacag cttcccacac ccgctctgac 240
```

```
aatantnagc ctttctgaag catcaaagcc ttagaccagn tgaagactcc agccatgacc 300
tcangctgct ccgnct
                                                                     316
<210> 815
<211> 507
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (358)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (399)
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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (486)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (506)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (507)
<223> n equals a,t,g, or c
<400> 815
ggcacagene geatgggetg eggggeegeg egagetegee teegteetet geeteegeag 60
aacgccgcga tggctgcgca gggagagccc caggtccagt tcaaagtagg taaccctgcg 120
990999aggc ggccgagccc gaccgcgtgc gactcgcggg tccctcctcc tggggccacq 180
atggctgtaa tggggccccg catccacatt ctttgtttta agtgagcctg tggtggttaa 240
agttccgtga ctctgggatc ttganaggtg aatgtttang gtttacttcc aaaatgtgtt 300
tttcaacanc ttgtaatggt tggtgatggt ggtaanggga aaaacgacnt cgtggaantg 360
catttgactg gtggaatttg agaanaatgt gttagccanc ttgggtgttg gaggttcaac 420
ccccaatgtt tccacancaa cagaggaccc attaagttca atgtantggg acacagccgg 480
ccaggngaat tccgtggact ggaaann
                                                                   507
<210> 816
<211> 551
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (15)
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<223> n equals a,t,g, or c
 <400> 816
 cnagtgtaga cagcnaaccc tcactaaagg gaacaaaagc tggagctcca ccgcggtgcg 60
 gccgctctag aactagtgga tcccccgggc tgcaggaatt cggcacgagc aggcatgcag 120
aaggctgacg tctatagctt tgggatcatc ctgcaggaga tagcacttcg cagtggtcct 180
ttctacttgg agggcctgga cctcagcccc aaagagattg tccagaaggt acgaaatggt 240
cagcggccat atttccggcc aagcattgac cggacccaac tgaatgaaga gctagttttg 300
ctgatggagc gatgttgggc tcaggaccca gctgagcggc cagactttgg acagattaag 360
ggcttcattc ggcgctttaa caaggaggt ggcaccagca tattggacaa cctcctgctg 420
cgcatggaac agtatgccaa taacttggag aagctggtgg aggaacgcac acaggcctat 480
ctggaggaaa aacgcaaggc tgaagctctg ctctaccaaa tcctacccca ttcagtggca 540
gagcagttaa a
                                                                    551
<210> 817
<211> 386
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c
<220>
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<221> misc feature

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<222> (379)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c
<400> 817
gggagacatt naagannttc aaggatccca atgcacccaa gaggcctcct tcggccttct 60
tcctcttctg ctctgagtat cgcccaaaaa tcaaaggaga acatcctggc ctgtccattg 120
gtgatgttgc gaagaaactg ggagagatgt ggaataacac tgctgcagat gacaagcagc 180
cttatgaaaa gaaggctgcg aagctgaagg aaaaatacga aaaggatatt gctgcatatc 240
gagctaaagg aaagcctgat gcagcaaaaa agggagttgt caaggctgaa aaaagcaaga 300
aaaagaagga agaggaaggaa gatgaggaag atgaagagga tgaggaggag gaggaagatg 360
aagaagatga angatgnnna cacntg
                                                                    386
<210> 818
<211> 364
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c
<400> 818
ggcacgagaa aatgtcaggc ctgattatct aaaagctatt tggaatgtaa tcaactggga 60
gaatgtaact gaaagataca tggcttgcaa aaagtaaacc acgatcgtta tgctgatcat 120
```

accetaatga teccageaag ataatgteet ttettetaag atgtgeatea ageetggtae 180

<220>

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atactgaaaa ccctataagg tcctggataa tttttgtttg attattcatt gaagaaacat 240
ttattttcca attgtgtgaa gtttttgact gttaataaaa gaatctgtca accatcaaaa 300
aaanaaaaaa aaaaaacctg ggggggggcc ccgnanccna tttggccctt tggggggggg 360
tntt
<210> 819
<211> 462
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222>,(352)
<223> n equals a,t,g, or c
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<221> misc feature
 <222> (355)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (359)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c
<400> 819
ntgatagaca agaangaaag taacccgnac taaagggaac aaaagcngga gctccaccgc 60
ggtgccgncc gctctagaac tagtggatcc cccgggctgc aggaattcgg cacgagctcc 120
gccagacagc gggncaaagt gctggcccat ttctatgggg tgaagctgga gggcaaggtg 180
cccatgcaca agctgttctt ggagatgctc gaggccatga tggactgagg caaggggtgg 240
gactggtggg ggttctggcc aggacctgcc ttagcatggg gtccagcccc aagggctgng 300
gcggactggg gtctgggcat gccacagcct gctggcaggc cagggcatgc cntcncccng 360
gggaacaggc cccacgcont ttcttcccct tctaaggggt gttcaaaact gggaactttt 420
ttccaggttt tgggcacatt gttgcccctt tnnanncata aa
                                                                   462
<210> 820
<211> 449
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
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<222> (8)
<223> n equals a,t,g, or c
<400> 820
gcgcgcantc ccggctccct ccccttcgg atgtggcttg agctgtaggc gcggagggcc 60
ggagacgctg cagacccgcg acccggagca gctcggaggc ggtgaataat agctcttcaa 120
gtctgcaata aaaaatggcc tccaacaaaa ctacattgca aaaaatggga aaaaaacaga 180
atggaaagag taaaaaagtt gaagaggcag agcctgaaga atttgtcgtg gaaaaagtac 240
tagatcgacg tgtagtgaat gggaaagtgg aatatttcct gaagtggaag ggatttacag 300
atgctgacaa tacttgggaa cctgaagaaa atttagattg tccagaattg attgaagcgt 360
ttcttaactc tcagaaagct ggcaaagaaa aagatggtac caaaagaaaa tctttatctg 420
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gaaatggacc ccaactgctc ttgcgccact ggtggctcct gcacgtgcgc cggctcctgc 120
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aagtgcaaag agtgcaaatg cacctcctgc aagaagagct gctgttcctg ctgccccgtg 180
ggctgtgcca agtgtgccca gggctgcgtc tgcaaagggg catcggagaa gtgcagctgc 240
tgtgcctgat gtgggaacag ctcttctccc atatgtaaat agaacaacct gcacaacctg 300
gattttttta aaaatacaac actgagccat ttgctgcatt tcttttatac taaatatgtg 360
actgacaata aaaacaattt tgactttaaa anaaaaaaaa agggggccnt ttggggtccc 420
tgggggccan ttnnggggat cgggaaagtt tcc
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<221> misc feature
<222> (455)
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<222> (461)
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taaaacactg aactgacaat taacagccca atatctacaa tcaaccaaca agtcattatt 120
acceteactg teaacecaae acaggeatge teataaggaa aggttaaaaa aagtaaaagg 180
aactcggcaa atcttacccc gcctgnttac caaaaacatc acctctagca tcaccagtat 240
tagaggcacc gactgcccan gtgacacatg tttaacggcc gcggtaccct aaccgtgcaa 300
aggtagcata atcacttggt ccttaattan ggacctgtat gaatggctcc acgagggttc 360
aagctgnctc ttacttttaa ccagtgaaaa tgacctgncc gngaagaggc gggcataaca 420
cagcangacc aagaagaccc tatggagctt taatntatta ngcaaacagt ccta
<210> 823
<211> 463
<212> DNA
<213> Homo sapiens
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gaataagaag gggaagacta tctccctaac agactttctg gctgaggatg ggggtactgg 120
tggaggaagc acctatgttt ccaaaccagt cagctgggct gatgaaacgg atgacctgga 180
aggagatgtt tcgaccactt ggcacagtaa cgatgacgat gtgtataggg cgcctccaat 240
tgaccgttcc atccttccca ctgctccacg ggctgctcgg gaacccaata tcgaccggag 300
ccgtcttccc aaatcgccac cctacactgc ttttctagga aacctaccct atgatgttac 360
tgaacccagc aatccagaga ngttgaaagg tttgggtatg ctg
                                                                463
<210> 824
<211> 599
<212> DNA
<213> Homo sapiens
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<222> (9)
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<221> misc feature .
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  <222> (307)
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  <221> misc feature
  <222> (319)
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  <222> (328)
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<221> misc feature

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<221> misc feature
<222> (440)
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<222> (586)
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cgtcttgctg ctgatgactt tagaggcnag tatgagacag atctggccat gcgccantct 120
gtgganaacg acatccatgg gctccgaaag gtcattgatg acaccaatat cacacgactg 180
canctggaga cagagatcga ggntctnang gaggatctgc tcttcatgaa naanaaccac 240
taagaggaan gancaaggcc tacaagccca nattgccanc tctgggntga ccgnggaggt 300
anatycnece aaateteang acetegenna gancatggga gacateeegg eccaatatga 360
cnagetgget entaagaace gagangaage tagaceagta etggtettaa acanattnan 420
ganagcacca cagtggtcan cacacagtct gctgaagttg gaactgctga aacnacgctc 480
acaganctta gacgtacagg ccattccttg gaaatatgaa ctggacttca ttagaaatct 540
gaangccctc ttggaaaaca accttgacgg gaagtggang ncccgntacg accttacaa 599
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<212> DNA
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<221> misc feature
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<221> misc feature
<222> (463)
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<222> (469)
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<222> (473)
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<222> (480)
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atcttgcctg gagcaaggnt atcaatgctt acaattgtga agagcccaca gaaaagttac 120
cttttcccat catcgatgat aggaatcggg agcttgccat cctgttgggc atgctggatc 180
cagccagaga aggatgaaaa gggcatgcct gtgacagctc gtgtggtgtt tgtttttggt 240
cctgataaga agctgaagct gtctatcctc tacccagcta ccactggcag gactttgatg 300
agateteagg gtagteeane teteteeage tgacanagaa aaagggttge acceagttga 360
ttggaggntg ggataggtat ggcctccacc ncctgagaga gcaaaaattt tccgnagagn 420
tnacaagngt ccttgcagan actcgtaaac cagctaagtn tgngagtgnn ttngcaagtn 480
taatccattt ttcngagatc
                                                                    500
<210> 826
<211> 511
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (274)
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  <220>
  <221> misc feature
  <222> (344)
  <223> n equals a,t,g, or c
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 <223> n equals a,t,g, or c
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 <221> misc feature
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 <222> (424)
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 <221> misc feature
 <222> (456)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (467)
 <223> n equals a,t,g, or c
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 <221> misc feature
 <222> (483)
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<222> (490)
<223> n equals a,t,g, or c
<220>
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<222> (496)
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gcgcccctc atcaccgtcg ccatgcccgg aggtctgctt ctcggggacg tggctcccaa 120
ctttgaggcc aataccaccg tcggccgcat ccgtttccac gactttctgg gagactcatg 180
gggcattctc ttctcccacc ctcgggactt taccccagtg tgcaccacag agcttggcag 240
agctgcaaag tggcaccaga atttgncaag aggnatgtta agttgattgc cctttcaata 300
gacagtgttg aggaccatct tgcctggagc aaggatatca atgnttacaa ttgtgagggg 360
ccacagaaag ttaccttttc ccatcatcgt gataggatcg gagttnccat cctnttggna 420
ngtnggtcca cagagaaggt gaaagggang cctttnagtc gtgtggngtt tttttggccc 480
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                                                                    511
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<222> (4)
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<222> (8)
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<220>
<221> misc feature
<222> (479)
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<222> (487)
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<223> n equals a,t,g, or c
<220>
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<222> (519)
<223> n equals a,t,g, or c
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gggtcgaccc acgcgtccgc cacggtccgc actgcctctt cccttctcgc ttgggaactc 120
tagtotogco togggttgca atggacocca actgotoctg tgccgctgag gtgtctcctg 180
caccingcca giccigcaag igcaaaagagi gcaaatgcac ciccigcaag aagagcigci 240
gctcctgctg ccctgtggct gtgccaagtg tgcccagggc tgcatctgca aaggggcatc 300
ggagaagtgc agctgctgcg cctgatgtcg ggacagccct gctcccaagt acaaatagag 360
tgacccgtaa aatccaggat tttttgtttt ttgctacaat cttgacccct ttgctacatt 420
ccttttttc tgtgaaatat gtgaataata attaaacact tagacttgaa aaaaaaaana 480
aaaaaanaaa aaagggggn cctttttagg gggttcncn
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<212> DNA
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<221> misc feature
<222> (11)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (14)
<223> n equals a,t,g, or c
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<220>

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<221> misc feature
 <222> (21)
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<222> (128)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (438)
<223> n equals a,t,g, or c
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cccacgcgtc cgggagggga cacgggctca ttgcggtgtg cgccctgcac tctgtccctc 120
actegeence gaegacetgt etegeegage geaegeettg eegeegeece geagaaatge 180
ttcggttacc cacagtcttt cgccagatga gaccggtgtc cagggtactg gctcctcatc 240
tcactcgggc ttatgccaaa gatgtaaaat ttggtgcaga tgcccgagcc ttaatgcttc 300
aaggtgtaga ccttttagcc gatgctgtgg ccgttacaat ggggccaaag ggaagaacag 360
tgattattga gcagagttgg ggaagtccca aagtaacaag agatggtgtg actgttgcaa 420
agtcattgac ttaaaagnaa at
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<223> n equals a,t,g, or c
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<222> (35)
<223> n equals a,t,g, or c
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<222> (391)
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<222> (489)
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cggttaccca cagtctttcg ccagatgaga ccggtgtcca gggtactggc tcctcatctc 120
antcgggctt atgccaaana tgtaaaattt ggtgcagatg cccgagcctt aatgcttcaa 180
ggtgtagacc ttttagccga tgctgtggcc gttacaatgg ggccaaaggg aagaacagtg 240
attattgagc agagttgggg aagtcccaaa gtaacaaaag atggtgtgac tgttgcaaag 300
tcaattgact taaaagataa atacaaaaac attggagcta aanttgttca agatgttgcc 360
antaacacaa ttgaggagct ggggatggca ntaccatgct actgttatgg cacgtctata 420
gccaaggaag gtttcgagaa ggttagcaag gtgctaatcc atgggaatca ggagaggtgt 480
gatgttagng ttgatgctgt attg
                                                                    504
<210> 830
<211> 582
<212> DNA
<213> Homo sapiens
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<222> (9)
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<220>
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 <222> (11)
 <223> n equals a,t,g, or c
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 <222> (12)
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<221> misc feature
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<223> n equals a,t,g, or c
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<222> (30)
<223> n equals a,t,g, or c
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ctagaactag tggatccccc gggctgcagg aattcggcac aattcggcac gagggaaggt 120
gctgtgtaat cattaaggag cggaggcttt tggagctgct aaaatgccgg attacctcgg 180
tgccgatcag cggaagacca aagaggatga gaaggacgac aagcccatcc gagctctgga 240
tgagggggat attgccttgt tgaaaactta tggtcagagc acttactcta ggcagatcaa 300
gcaagttgaa gatgacattc agcaacttct caagaaaatt aatgagctca ctggtattaa 360
agaatctgac actggcctgg ccccaccagc actctgggat ttggctgcag ataagcagac 420
actccagagt gaacagcctt tacaggttgc caggtgtaca aagataatca atgctgattc 480
ggaggaccca aaatacatta tcaacgtaaa gcagtttgcc aagtttgtgg tggaccttag 540
tgatcaggtg gcacctactg acattgaaga agggatgaga gt
                                                                    582
<210> 831
<211> 385
<212> DNA
<213> Homo sapiens
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<222> (98)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (142)
<223> n equals a,t,g, or c
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<220>
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 <222> (274)
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<222> (322)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (356)
<223> n equals a,t,g, or c
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<223> n equals a,t,g, or c
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<221> misc feature
<222> (373)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (374)
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ggccgctcag gcgcctgcgg ctgggtgagc gcacgcangg cggcgaggcg gcacgtgttt 120
ctaggtcgtg gcgtcgggct tncggagctt tggcggcact aggggaggat ggcggagtct 180
tcggataagc tctatcgagt cgagtacgcc aagagcgggc gcgcctcttg caagaaatgc 240
agcgagacat ccccaaggac tcgctccgga tggncatcat ggtgcatcgc ccatgtttga 300
tggaaaagtc cacatggtac anttctcctg cttctggaag tgggcaatcc atccgnanct 360
gactttaagt gannggtttc ttata
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<210> 832
<211> 505
<212> DNA
<213> Homo sapiens
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<222> (5)
<223> n equals a,t,g, or c
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gcgatgctgg caacacggcg gctgctcggc tggtcgcttc ccgcgcggac agcacccaag 120
aaaacctcat ttggctcgct gaaggatgaa gaccggattt tnaccaacct gtacggccgc 180
catgactgga ggctgaangt tccctgagtc gaggtgactg gtacaagaca aaggagatcc 240
tgctgaaggg gcccgactgg atcctgggcg agatcaagac atcgggttta aggggccgtg 300
gaggcgctgg cttccccaat ggcctcaagt ggngnttcat gataaggcct cagatggcag 360
gcccaagtat ttggtggttn aacgcaaacg aggggggagc cgggnaactg naagaaccgg 420
ggggttttta ggccnggntc ttaaaaagtt tttgaaggtt nctttgttgg gggnccggnc 480
atgggggccc ggttgnntat ttttt
                                                                    505
<210> 833
<211> 444
<212> DNA
<213> Homo sapiens
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<222> (336)
<223> n equals a,t,g, or c
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<222> (355)
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<223> n equals a,t,g, or c
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<222> (444)
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 gccgctcctg gtgctgcttg tgtgctcgtt tggtgcggac ctggtacctc ttttgtgaag 120
 cggcagctga ggagactccg gcgctcgcca tggccgacga aaagcccaag gaaggagtca 180
 agactgagaa caacgatcat attaatttga aggtggcggg gcaggatggt tctgtggtgc 240
 agtttaagat taagaggcat acaccactta gtaaactaat gaaagcctat tgtgaacgac 300
 agggattgtc aatgaagcag atcagattcc gatttnacgg gcaaccaatc aatgnaacag 360
 acacacctgc acagttgggn aatgggagga tgaagatacc aatgatgtgt tccaaacagc 420
 agacgggagg tgtctactga aaan
 <210> 834
 <211> 370
 <212> DNA
<213> Homo sapiens
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<220>
<221> misc feature
<222> (142)
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<221> misc feature
<222> (322)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (331)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (336)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (346)
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<221> misc feature
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<222> (365)

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 accttctggg caaggaggac gcggcgcgc agattcgccg cttcagcttc tgctgcagcc 120
 ccgagcctga ggcgggaagc nnggctgcgg cgggtccggg acccttgcga gcggctgctg 180
 agccgggtgg ccgccctgtt ccccgcgctg cggcctggcg gctttccagg cgcactaccg 240
cgattgagga cggggatttg ttgctttttt ccattgacga ggatttgaca tgggcatgtt 300
ctacgttgaa gatgaatctt tncgatttta natttnaaga gaaaanattt ccggcgggga 360
cacgncaagt
                                                                    370
<210> 835
<211> 317
<212> DNA
<213> Homo sapiens
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<222> (301)
<223> n equals a,t,g, or c
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<222> (311)
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eccaegegte egeceaegeg teegeceaeg egteegecea egegteegea atgagetteg 60
tgttgcccct gaagagcatc ccaccctgct cacggaggca cccctgaacc ccaaggccaa 120
ccgggagaaa atgactcaaa ttatgtttga gactttcaat gtccaagcca tgtntttggc 180
tatccaggcg gtgctgtctc tctatgcctc tggangcaca atggaatcgt gctggactct 240
ggagatggtg tcacccanaa tgtcccaatn tatgagggct atgcttgncc ccatgcaata 300
natgggtctg natttgg
<210> 836
<211> 382
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (85)
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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (190)
<223> n equals a,t,g, or c
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<222> (192)

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<221> misc feature
<222> (271)
<223> n equals a,t,g, or c
<220>
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<222> (311)
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<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (374)
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<223> n equals a,t,g, or c

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ggcgacggtg cgggcttcan agggncccgt ttacaaagga gtctgcaaat gcttctnccg 120
gtccaagggc catggcttca tnnccccagc tgatggcggc cccgacatct tcctgcacat 180
ctttgaatgn gnaaggggga gtatgtncca ntggaaggcg acgaggtcan ctataaaatg 240
tgcttccatc ccacccaaga ntgagaagct ncaagccgtg ggagttcgtc atcaatcacc 300
tggcaccagg naccaagtat gagacctggt tttggacant ttcatcantt tcntaggaga 360
ttggttggaa gcancccttt tt
<210> 837
<211> 375
<212> DNA
<213> Homo sapiens
<400> 837
eggagtttet ceteggggte ggageaggag geaegeggag tgtgaggeea egeatgageg 60
gacgctaacc ccctccccag ccacaaagag tctacatgtc tagggtctag acatgttcag 120
ctttgtggac ctccggctcc tgctcctctt agcggccacc gccctcctga cgcacggcca 180
agaggaaggc caagtcgagg gccaagacga agacatccca ccaatcacct gcgtacagaa 240
eggeeteagg taccatgace gagaegtgtg gaaaceegag ceetgeegga tetgegtetg 300
cgacaacggc aaggtgttgt gcgatgacgt gatctgtgac gagaccaaga actgccccgg 360
cgccgaagtc cccga
                                                                    375
<210> 838
<211> 484
<212> DNA
<213> Homo sapiens
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<223> n equals a,t,g, or c
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<222> (18)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (36)
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<222> (300)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (352)
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<220>
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<222> (360)
<223> n equals a,t,g, or c
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<221> misc feature
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<222> (368)

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<222> (391)
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<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (445)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (476)
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ccgggtcgac ccacgcgtcc ggccagccgt tcacgcgttc ggtcctcctt ggctgantca 120
ccgccctcgc cgccgcanca tggacgcccc cangcaggtg gtcaactttg ggcctggtcc 180
cgccaanctg ccgcactcag tgttgttaga gatacaaaag gaattattag actacaaagg 240
aattggcatt agtgttcttg aaatgantca cangtcatca gattttgcct agattattan 300
caatacagaa aatcttgtgc gggaattgct aactgttcca gacaactata angtgatttn 360
tctggcangg aagtgggtgc ggccaattca ntgctgtccc ttaancctca ttggcttgaa 420
agcangaaag tgtgcggact atgtngtgac aggaacttgg tcagctaagg gcgcanaaaa 480
aacc
                                                                    484
<210> 839
<211> 473
<212> DNA
<213> Homo sapiens
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<220>
<221> misc feature
<222> (224)
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<223> n equals a,t,g, or c
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<221> misc feature
<222> (237)
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<220>
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<223> n equals a,t,g, or c
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<222> (332)
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<220>
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<221> misc feature
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<221> misc feature
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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (446)
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<223> n equals a,t,g, or c

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 <222> (454)
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<222> (462)
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ccatgtattc ggctgctggc agagacttgg ggatggaacc gcacagagcc gcgggccctt 120
tgccagctgc gaattttcgc cctgacgttt tcaacggagg tgactatact gggcaattgc 180
tggagaagat tttgccaatt gttgcttctg aatactcgat tgantgaaag ggttttnaat 240
tcatacgcgg ggttagcccc aaatgttaca anttaaacag ncaaaacagt ccattggatg 300
cagcggtttt ccatggagac tgttcttacg gntgacaaag attttttgaa gcaagactaa 360
agntgtatta ggcattccca ttattaaggc ctggattacg ggggggcatt nctgcaatgc 420
tgtcnaaaat ncccgtnttt caaggngttt tttnccctac tntggtttac aac
<210> 840
<211> 279
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (104)
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<222> (173)
<223> n equals a,t,g, or c
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<222> (229)
<223> n equals a,t,g, or c
<220>
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<222> (244)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (247)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (260)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (277)
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tntctacata aaatacaaaa acttagatgg gcatggtgct gtgngcctat agtcccacta 120
cttgtggggc taaggcagga ggatcacttg agccccggag gtcgaggcta cantgcgcca 180
agagtgcact actgtactcc agccagggca aggagagcga gaccctgtnt caaataaata 240
aatnaantta attaaataan taatttaaat aaaagcnaa
                                                                    279
<210> 841
<211> 234
<212> DNA
<213> Homo sapiens
<220>
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<222> (31)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (64)
<223> n equals a,t,g, or c
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<222> (69)
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<223> n equals a,t,g, or c
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<221> misc feature
<222> (103)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c
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<222> (115)
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<222> (118)
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<222> (123)
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<222> (172)
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<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c
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 <222> (216)
 <223> n equals a,t,g, or c
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<400> 841
cgggctgcag agtaaatcag gccgcggtaa natggcacga gcaggtctnc tggttatcgg 60
aggnaaggnn tggcgaaacg gtgtattacc gtttgctacc agnnaagaac gtganganaa 120
gangggcacg aggcctggtt tttaaggagt gtcgccagag tgcctcgatg anacgggtat 180
tggcggtata tggagttaaa agatgaccan ctanangact gagctagtan cagg
<210> 842
<211> 460
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (447)
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<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c
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 aaggcggcaa aaagggagcc aagaagaaag tggttgatcc attttctaag aaagattggt 120
 atgatgtgaa agcacctgct atgttcaata taagaaatat tggaaagacg ctcgtcacca 180
 ggacccaagg aaccaaaatt gcatctgatg gtctcaaggg tcgtgtgttt gaagtgagtc 240
 ttgctgattt gcagaatgat gaagttgcat ttagaaaatt caagctgatt actgaagatg 300
 ttcagggraa aaactgcctg actaacttcc atggcatgga tcttacccgt gacaaaatgt 360
 gttccatggt caaaaaatgg canacaatga ttgaagctca cgttgatgtc aagactaccg 420
 atggttactt gcttcgctgt tctgngntgg ntntactaaa
 <210> 843
<211> 597
 <212> DNA
 <213> Homo sapiens
<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c
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<222> (7)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (16)
<223> n equals a,t,g, or c
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<222> (46)
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<220>
<221> misc feature
<222> (189)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c
<400> 843
cagtgnngac accaanccat cactaaaggg aacaaaagct ggagcnccac cgcggtgcgg 60
ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgaggt ccttccgagg 120
aagctaaggc tgcgttgggg tgaggccctc acttcatccg gcgactagca ccgcgtccgg 180
cagegeeane ctacactege eegegeeatg geetetgtet eegagetege etgeatetae 240
toggccctca ttotgcacga cgatgaggtg acagtcacgg aggataagat caatgccctc 300
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attaaagcag ccggtgtaaa tgttgagcct ttttggcctg gcttgtttgc aaaggccctg 360
 gccaacgtca acattgggag cctcatctgc aatgtagggg ccggtggacc tnctccagca 420
gctggtgctg caccagcagg aggtcctgcc ccctccactg ctgctgctcc agctgaggag 480
aagaaagtgg aagcaaagaa agaagaatcc gaggagtctt atgatgacat gggctttggt 540
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<210> 844
<211> 502
<212> DNA
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<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (51)
<223> n equals a,t,g, or c
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<222> (63)
<223> n equals a,t,g, or c
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<222> (95)
<223> n equals a,t,g, or c
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<222> (135)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (224)
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<222> (244)
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<222> (276)
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<221> misc feature
<222> (399)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c
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<400> 844

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ggnggccgct ctagtaacta gtggatcccc cgggnctgca gggaattcgg gcacgagcaa 120
gccaagatgg gtgcnataca agtacatcca ggtagctatg gagaaagaag cagtctgatg 180
tcatgcgctt tcttctgagg gtccgctgct ggcagtaccg ccanctctct gctctccaca 240
gggnctcccc gccccacccg gcctgataaa gcgcgncgac tgggctacaa ggccaagcaa 300
ggttacgtta tatataggat tcgtgttcgc cgtggtggcc gaaaacgccc agttcctaag 360
ggtgcaactt acggcaagcc tgtccatcat ggtgttaanc anctaaagtt tgctcgaagc 420
cttcagtccg ttgcagagga gcgagctgga cgccactgtg gggctctgag agtcctgaat 480
tcttactggg ttggtgaaga tt
                                                                   502
<210> 845
<211> 601
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c
<400> 845
genganaena acceteacta aagggaacaa aagetggage tecacegegg tgacgacege 60
tctagaacta gtggatcccc cgggctgcag gaattcggca gagctttgct tttccatccg 120
cctttgatcg tcttcctctt cagccatcca ggtaagccaa gatgggtgca tacaagtaca 180
tccaggagct atggagaaag aagcagtctg atgtcatgcg ctttcttctg agggtccgct 240
gctggcagta ccgccagctc tctgctctcc acagggctcc ccgccccacc cggcctgata 300
aagcgcgccg actgggctac aaggccaagc aaggttacgt tatatatagg attcgtgttc 360
gccgtggtgg ccgaaaacgc ccagttccta agggtgcaat tacggcaagc ctgtccatca 420
tggtgttaac agctaaagtt tgctcgaagc cttcagtccg ttgcagagga gcgagctgga 480
cgccactgtg gggctctgag agtcctgaat tcttactggg ttggtgaaga ttccacatac 540
aaattttttg aggttatcct cattgatcca ttccataaag ctatcagaag aaatcctgac 600
                                                                   601
<210> 846
<211> 455
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (5)
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<223> n equals a,t,g, or c
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<221> misc feature
<222> (14)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c
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<222> (28)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (115)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c
<400> 846
aattntaatt aaantcaccn tcactaangg ancaaagctg gngctccacc gcggtggcgg 60
ccgctctagc actagtggat cccccgggtc tgcaggaatt cggcacgagc gcagnaagcg 120
agatgacgag ggaacgtcat cgtttggaaa gcgtcgcaat aagacgcaca ngttgtgccg 180
negetgtgge tetaaggeet accacettea gaagtegace tgtggcaaat gtggetacee 240
tgccaagcgc aagagaaagt ataactggag tgccaaggct aaaagacgaa ataccaccgg 300
aactggtcga atgaggcacc taaaaattgt ataccgcaga ttcaggcatg gattccgtga 360
aggaacaaca cctaaaccca agagggcagc tgttgcagca tccagttcat cttaagaatg 420
tcaacggtta gtcatgcaat aaatgttctg gtttt
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<210> 847
 <211> 428
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (21)
 <223> n equals a,t,g, or c
 <400> 847
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 actagtggat cccccgggct gcaggaattc ggcacgaggt cgcggcgaca tggccaaacg 120
 taccaagaaa gtcgggatcg tcggtaaata cgggacccgc tatggggcct ccctccggaa 180
aatggtgaag aaaattgaaa tcagccagca cgccaagtac acttgctctt tctgtggcaa 240
aaccaagatg aagagacgag ctgtggggat ctggcactgt ggttcctgca tgaagacagt 300
ggctggcggt gcctggacgt acaataccac ttccgctgtc acggtaaagt ccgccatcag 360
aagactgaag gagttgaaag accagtagac gctcctctac tctttgagac atcactggcc 420
tataataa
                                                                    428
<210> 848
<211> 348
<212> DNA
<213> Homo sapiens
<400> 848
tegeggegae atggecaaac gtaccaagaa agtegggate gteggtaaat acgggaceeg 60
ctatggggcc tccctccgga aaatggtgaa gaaaattgaa atcagccagc acgccaagta 120
cacttgctct ttctgtggca aaaccaagat gaagagacga gctgtgggga tctggcactg 180
tggttcctgc atgaagacag tggctggcgg tgcctggacg tacaatacca cttccgctgt 240
cacggtaaag tccgccatca gaagactgaa ggagttgaaa gaccagtaga cgctcctcta 300
ctctttgaga catcactggc ctataataaa tgggttaatt tatgtaac
                                                                    348
<210> 849
<211> 365
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c
<220>
<221> misc feature
```

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<222> (217)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
<222> (226)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (315)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c
<400> 849
ggcagagcct aggtcgcggc gacatggcca aacgtaccaa gaaagtcggg atcgtcggta 60
aatacgggac ccgctatggg gcctccctcc ggaaaatggt gaagaaaatt gaaatcagcc 120
agcacgccaa gtacacttgc tctttctgtg gcaaaaccaa gatgaagaga cgagctgtgg 180
ggatctggca ctgtggttcc tgcatgaaga cagtgnntgg cggtgnctgg acgtacaata 240
ccacttccgc tgtcacggtt aaagtccgcc atcagaagan tgaaggagtt gaaagaccat 300
tagacgttcc thtantcttt gggacatcat tggnctataa ttaatgggtt aatttttggt 360
naaaa
                                                                    365
<210> 850
<211> 276
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c
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 <222> (11)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (36)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (47)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (75)
 <223> n equals a,t,g, or c
<400> 850
gacantaaga ngggaacaaa aaaacatgga acatgnacac agcaggntgg caggcacagc 60
atcataggaa ctagntggat cccccagggc tgcaggaatt cggcacgagg ccgaaaggaa 120
agaaggccaa gggaaagccc agctgtcgtg aagaagcagg aggctaagaa agtggtgaat 180
cccctgtttg aagcctaaga attttggcat tggacaggac atccagccca aaagagactc 240
accepetttg tgaaatgget atateaggtt geageg
<210> 851
<211> 430
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (174)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (313)
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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c
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gctgcgagaa gacgacagaa aaaaaaaaaa aaaaaaaaa agcgcggccg ctgtcgagaa 60
gacgacagan gggggccccg gaagataagg ccgntcgctg acgccgtgtt tcctctttcg 120
gccgcgctgg tgaacaggac ccgtcgccat gggccgtgtg atccgtggac agangaaggg 180
cgccgggtct gtgttccgcg cgcacgtgaa gcaccgtaaa ggcgctgcgc gctgcgcc 240
gtggatttcg ctgagcggaa cggctacatc aagggcatcg tcaaggacat catccacgac 300
ccgggccgcg gcncgcccct cgccaaggtg gtcttccggg atccgtancg tttaagaagc 360
gngncggagc tgttcattgc cgccgagggc attcacacgg gccagtttgt gtattgccgc 420
aaaaaggccc
                                                                    430
<210> 852
<211> 420
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (84)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (92)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (176)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (247) .
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<221> misc feature
<222> (263)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (317)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (404)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (411)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (418)
<223> n equals a,t,g, or c
<400> 852
gcggacgcgt gtntcgaccc acgcgtccgg ncgagncgcg cggaggcgga ggcttgggtg 60
cgttcaagat tcagcttcac ncgnaagcca cnggcatggc ngaggaaggc attgctgctg 120
gaggtgtaat ggacgttaat actgctttac aagaggttct gaagactgcc ctcatncacg 180
atggcctagc acgaggaatt cgcgaagctg ccaaagcctt agacaagcgc caagcccatc 240
tttgtgngct tgcatccaac tgngatgagc ctatgtatgn caagntggng gaggcccttt 300
gngctgaaca ccaaatnaac ctaattaagg gttgatgaca acaagaaact aggagaatgg 360
gtaggccttt gnaaaatga cagagaggg aaaccccgna aagnggttgg nttgcagntg 420
<210> 853
<211> 278
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (127)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c
<400> 853
ctcgtgccga attcggcacg agccgccatc atgggtcgca tgcatgctcc cgggaagggc 60
ctgtcccagt cggctttacc ctatcgacgc agcgtcccca cttggttgaa gttgacatct 120
gacgannnga aggagcagat ttacaaactg gccaagaagg gccttactcc ttcacagatc 180
ggtgtaatcc tgagagattc acatggtgtt gcacaagtac gttttgtgac aggcaataaa 240
attttaagaa ttcttaagtc taagggactt gctcctga
                                                                    278
<210> 854
<211> 408
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c
<400> 854
gcggnacgnt ggaccggggt ccttccgtgc gcgttgatat gattggccgg cgaatcgtgg 60
ttctcttttc ctccttggct gtctgaagat agatcgccat cgtnaacgac accgtaacta 120
tccgcactag aaagttcatg accaaccgac tacttcagag gaaacaaatg gtcattgatg 180
tccttcaccc cgggaaggcg acagtgccta agacagaaat tcgggaaaaa ctagccaaaa 240
tgtacaagac cacaccggat gtcatctttg tatttggatt cagaactcat tttggtggtg 300
gcaagacaac tggctttggc atgatttatg attccctgga ttatgcaaag aaaaatgaac 360
ccaaacatag acttgcaaga catggcctgt atgagaagaa aaagacct
                                                                   408
<210> 855
<211> 424
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
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<222> (288)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (345)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c
<400> 855
gggtcgaccc acgcgtccgc tatgacacca agggtcgctt tgctgtacat cgtattacac 60
ctgaggaggc caagtacaag ttgtgcaaag tgagaaagat ctttgtgggc acaaaaggaa 120
teceteatet ggtgaeteat gatgeeegea ceateegeta eeeegateee eteateaagg 180
tgaatgatac cattcagatt gatttggaga ctggcaagat tactgatttc atcaagttcg 240
acactggtaa cctgtgtatg gtgactggag gtgctaacta gggaagantg gtgtgatcac 300
caacagagag aggcaccctg ggatcttttg gacgtgggtt cactngaaag atggccaatg 360
ggaacagctt tgccaantcg anttttccaa catttttgtt anttgggcaa ggggcaacaa 420
anca
<210> 856
<211> 608
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (270)
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<220>
<221> misc feature
<222> (303)
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<220>

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<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (529)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (537)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (555)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (575)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (599)
<223> n equals a,t,g, or c
<400> 856
gggcatcttt cgggacaatt ggcacaagcg ccgcaaaacc gggggcaaga gaaagcccta 60
ccacaagaag cggaagtatg agttggggcg cccagctgcc aacaccaaga ttggcccccg 120
ccgcatccac acagtccgtg tgcggggagg taacaagaaa taccgtgccc tgaggttgga 180
cgtggggaat ttctcctggg gctcagagtg ttgtactcgt aaaacaagga tcatcgatgt 240
tgtctacaat gcatctaata acgagctggn tcgtaccaag accctggtga agaattgcat 300
cgngctcatc gacagcacac cgtaccgaca gtggtaccna gtcccactat gcgctgcccc 360
tggcccgcaa gaagggagcc aagctgactc ctgaggaaga agagatttta aacaaaaaac 420
gatctaaaaa aattcagaag aaatatgatg aaagggaaaa agaatgccaa aatcaagcaa 480
gtcttctgga ggagcagttt cagcagggca agcttcttgc gtgcatcgnt ttaaggnccg 540
gacagtgtgg ccgancagat ggctatgtgc taaanggcaa agagtggagt ctatcttang 600
aaaacaag
                                                                   608
<210> 857
<211> 450
<212> DNA
<213> Homo sapiens
```

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<221> misc feature
<222> (368)
<223> n equals a,t,q, or c
<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c
<400> 857
ggcacgagtg gggccgtctt cctcatcctt cctttttctc ggggctcccg tggagccacc 60
tggacatgag acccgccctc aatgccgaag cctctcggaa gcaatctttc gggacggaag 120
ttaagtagcc ccgagcggga ggctgtggcg gaagtggtcg cgttaccgck tgtttgtgcg 180
catgcgccac tctcgtctgg ccgccgcgct ttcaggaggt gcttttggtt ctctccggtc 240
ttgtccacgc tagggggtgc acgtackccc aactgtggtc gcgctctcac cccttctgct 300
gckctcgtgg ccccctcgcg atggcgggca tcctgtttga ggatattttc gatgtgaagg 360
atattgancc ggaaggcaag aagtttganc gagtgtctcg ackgcattgt gagagtgaay 420
ttycaagatg gvwbkaaacn aagakgtaaa
                                                                    450
<210> 858
<211> 467
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c
<220>
```

<221> misc feature

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<222> (18)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c
<400> 858
gaaaanacnn gaaccannan gaagaatcga aagagctntg ncagncttnc tcaaaaagtc 60
cgggaagctg aaagtccccg aatgggtgga taccgtcaag ctggccaagc acaaagagct 120
tgctccctac gatgagaact ggttctacac gcgagctgct tccacagcgc ggcacctgta 180
cctccggggt ggcgctgggg ttggctccat gaccaagatc tatgggggac gtcagagaaa 240
cggcgtcatg cccagccact tcagccgtgg ctccaagagt gtggcccgcc gggtcctcca 300
agccctggag gggctgaaaa tggtggaaaa ggaccaagat ggcggtcgca aactgacacc 360
tcagggacaa agagatctgg acagaatcgc cggacaggtg gcagcttcca acaagaagca 420
ttagaacaaa ccatgctggg gtaataaatt ggcctnattc gtaaaaa
<210> 859
<211> 441
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (29)
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<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (396)
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<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c
<400> 859
gggtcgaccc acgcgtccga aaaactgtnn gggagcttga caaaggcatg caggagagaa 60
caggagcagc cacagccagg agggagagcc ttccccaagc aaacaatcca gagcagctgt 120
gcaaacaacg gtgcataaat gaggcctcct ggaccatgaa gctagtcctg agctgcgtcc 180
cggagcccac ggtggtcatg gctgccagag cgctctgcat gctggggctg gtcctggcct 240
tgctgtcctc cagctctgcg agggagttac gtggggcctg tctgccaaac cagtgtgccg 300
tgccagccaa ggacagggtg gaattgcggc ttacccccat gttcaccccc aaggattgca 360
aaaaccgggg ttgctgcntt tgaattccag gatccnggat ggncntggtg ttttcaagcc 420
cntgccagga agcagaagca c
                                                                    441
<210> 860
<211> 423
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (379)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c
<400> 860
tgggctacct gcattcactg aacatcgttt atagagactt aaaaccagag aatattttgc 60
tagattcaca gggacacatt gtccttactg acttcggact ctgcaaggag aacattgaac 120
acaacagcac aacatccacc ttctgtggca cgccggagta tctcgcacct gaggtgcttc 180
ataagcagcc ttatgacagg actgtggact ggtggtgcct gggagctttc ttgtatgaga 240
tgctgtatgg cctgccgcct ttttatagcc gaaacacagc tgaaatgtac gacaacattc 300
tgaacaagcc tctccagctg aaaccaaata ttaccaattc cgcaagacac ctcctggaag 360
ggctcctgna gaaggacang acaaagcggc tcgggggcaa nggtgacttc atggagatta 420
aga
                                                                    423
<210> 861
<211> 429
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c
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<400> 861
ggcacgagct cgtgcgcttt ggggctgctg ggactcgcgt cggttggcga ctcccggacg 60
taggtagttt gttgggccgg gttctgaggc cttgcttctc tttacttttc cactctaggc 120
cacgatgccg cagtaccaga cctgggagga gttcagccgc gctgccgaga agctttacct 180
cgctgaccct atgaaggcac gtgtggttct caaatatagg cattctgatg ggaacttgtg 240
tgttaaagta acagatgatt tagtttgttt ggtgtataaa acagaccaag ctcaagatgt 300
aaagaagatt gagaaattcc acagtcaact aatgcgactt attgtagncc aaggagcccn 360
caatttacca tgggaactga gtgaatggtt tnaatgagac ttntcgggta cttagggagt 420
aaaancttt
<210> 862
<211> 596
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (155)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (209)
<223> n equals a,t,g, or c
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<220>

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<222> (286)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (288)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (418)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (488)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (544)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (554)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (557)
<223> n equals a,t,g, or c
<400> 862
cgcggggcgn cncgctctag aactagtgga tcccctgggn ctgcaggaat tcggcanagg 60
naagtctccc agaagacagt gattatcaag gaagaggaag aagatactgc agagaagcca 120
gggaaggaag aggatgtcgt gactccaaaa ccagncaaga gaaagagaga ccaggcagag 180
gaggagccca acagaatacc aagccgcanc ctccgacgga ccaaacttaa ccaagaatca 240
acagccccca aagtgctctt cacaggagtg gtggatgctc gggganancg ggctgtgctg 300
gcatgggggg aaatctggct ggttcacggt caaagcttcc cacnggttca tggatcgcat 360
ccgccggaca ttcaattcct gtgtggccct ggggcggggn attccccatt ctgttccngg 420
gatgggtggc atcattcccg tcaagctggt tttcttctta cccccgatga atatgtggtg 480
aacgaccngg cnccaanaga agaatttggc tttactttca agacgcattg agcagggtcc 540
gganngaagg tgcntanaag ggtatgaatt tatgtgaacc tggatccacc acacca
<210> 863
<211> 441
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (418)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (434)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c
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<400> 863

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ggcagcttgg cagtgaccaa gaatgatggg cactaccgtg gagatcccaa ctggtttatg 60
 aagtatgtgg cccccaggga gcttgggtct ccgcatgggg tgggaggtgg cttgttctaa 120
 ggagcttgcg agaaggatta ggggaagcag atagccaaga aaggataaag tgagggtctg 180
 ggatggggaa taatgggtcc ttaatactcc ttgacccctc cctttccacc ctcctgcgct 240
cagtctccct agcctatgag gcaagctaga ttagggaaaa aaagtgcaca ggaaggcaat 300
 ggggattggg ctaagacgta acacagggat cagaaaacgg gtggaaaaca cacatttcta 360
ncaagtottt aaccoggtto otcocottot taggaaagog cagagottaa gangggantt 420
cacagagagc cagnngcagg a
                                                                    441
<210> 864
<211> 355
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c
<400> 864
gacatcacca cggcggcagc catttaaacc cctcacccag ccagcgcccc atcctgtctg 60
tccgaaccca gacacaagtc ttcactcctt cctgcgagcc ctgaggaagc cttctttccc 120
cagacatggc caacaagggt cottoctatg gcatgagccg cgaagtgcag tocaaaatcg 180
agaagaagta tgacgaggag ctgggaggag cggctggtgg agtgggtcca tagtggcagt 240
gtgggccctg atgtggggcc ggcccagacc gtggggcgct tggggctttc caggttntgg 300
cttgaagatt ggcgttgatt tntgnagcaa gctgggttgg aacagcntnt taccc
                                                                   355
<210> 865
<211> 499
<212> DNA
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<213> Homo sapiens

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<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (465)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (490)
<223> n equals a,t,g, or c
<400> 865
aattcggcac gagactggac caaattagac agagagaatc agatatcacc aaggagagaa 60
ttcagaagat cctggcaact ggtgccaatg ttattctaac cactggtgga attgatgata 120
tgtgtctgaa gtattttgtg gaggctggtg ctatggcagt tagaagagtt ttaaaaaggg 180
accttaaacg cattgccaaa gcttctggag caactattct gtcaaccctg gccaatttgg 240
aaggtgaaga aacttttgaa gctgcaatgt tgggacaggc agaagaagtt gtacaggaga 300
gattttgtga tgatgagctg atcttaatcn aaatacctag ggncgacggt ttnatcggtt 360
tttttcgggg ggcaaaattt tcccggtntt ngggnggggg cctttnaaag gncctttttg 420
ggagngnttt tgggnaaatt gggnccccgg gggttttaaa gnccntctnt cccaaaattn 480
ccccagggtn ggacctttt
<210> 866
<211> 353
<212> DNA
<213> Homo sapiens
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<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (249)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c
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<220>

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<221> misc feature
<222> (284)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c
<400> 866
attgctggaa aactgcagga tggactcttg nacatcacta nntgnagttt tntggctccc 60
tggaacagcc tgagcttagc tcncgccggg gcttcaccaa gacctacact gttggctgta 120
aggaatgcac agtgtttccc tgtttatcca tcccctgtca aactgcagag tggcactcat 180
tgcttgtgga cggaccagct cctccaaggc tctgaaaagg gcttccagtt cccgtnaacc 240
ttgnctggnc tgacctcggg aagenagggg ctgtgacacc tggnagtgcc ctgnggtncc 300
cagaatagcc tggaatcctg tcccgaagtt ggtaagttgg aagcctttna cat
<210> 867
<211> 566
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (499)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (514)
<223> n equals a,t,g, or c
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<400> 867
ccgcgcgccc gtcccgtcgc cgccgccgcc gccgcagacc cctcggtctt gctatgtcga 60
gctcacccgt gaagcgtcag aggatggagt ccgcgctgga ccagctcaag cagttcacca 120
ccgtggtggc cgacacgggc gacttccacg ccatcgacga gtacaagccc caggatgcta 180
ccaccaaccc gtccctgatc ctggccgcag cacagatgcc cgcttaccag gagctggtgg 240
aggaggcgat tgcctatggc cggaagctgg gcgggtcaca agaggaccag attaaaaatg 300
ctattgntaa actttttgtg ttgtttggag cagaaatact aaagaagatt ccgggccgag 360
tatccacaga atagacgcaa ggctctcctt tgataaagat gcgatggtgg ccagagccag 420
gcggntcatc gagctctaca aggaagctgg gatcagcaag accgaattct tataaagctg 480
tcatcaacct ggggaaggna ttcaggctgg aaangagctc gaaggagcag cacggcatcc 540
actgcaacat gacttaatct tctcct
<210> 868
<211> 413
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c
<400> 868
ggcacgagcg gcgtcttagc ggctgcgcgg tggctgctcc gtcctttcgg tccaggcggc 60
ggcagggctg agccagcgac gccctccatt cactctccgc gcccgttctc cggctgtcct 120
cccgttccgc tgcccgccct gccaccatga cggaacaggc catctccttc gccaaagact 180
tcttggccgg agnatcgccg ccgccatctc caagacggcc gtggctccga tcgagcgggt 240
caagctgctg ctgcaggtcc agcacgccag caagcagatc gccgccgaca agcagtacaa 300
gggcatcgtg gactgcattg tccgcatccc aaggagcagg cgtgtgtcct tctggagggn 360
aactttgcaa cgtcatcgct acttcccant caagcctcaa ttcgcttcaa gat
                                                                   413
<210> 869
<211> 600
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (329)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (547)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (548)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (555)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (583)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (588)
<223> n equals a,t,g, or c
<400> 869
gggactggag caaggtcgtc ctggcctatg agcctgtgtg ggccattggt actggcaaga 60
ctgcaacacc ccaacaggcc caggaagtac acgagaagct ccgaggatgg ctgaagtcca 120
acgtctctga tgcggtggct canagcaccc gtatcattta tggaggctct gtgactgggg 180
caacctgcaa ggagctggcc agccagcctg atgtggatgg cttccttgtg ggtggtgctt 240
ccctcaagcc cgaattcgtg gacatcatca atgccaaaca atgagcccca tccatcttcc 300
ctaccettee tgecaageea gggactaane ageceanaag eccagtaaet gecetteee 360
tgcatatgct tctgatggtg tcatctgctc cttcctgngg cctcatccaa actgtatctt 420
cetttactgg ttatatette accetgtaat ggttgggace aggecaatee ettetecaet 480
tactataatg gttggaacta aacgtcacca aggtggcttc tccttggctg agagatggaa 540
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```
ggcgtgnngg gattngctcc tgggttccct aagccctagt ganggcanaa gagaaaccat 600
<210> 870
<211> 497
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (136)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (236)
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<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (300)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c
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<220>
 <221> misc feature
 <222> (378)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (415)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (442)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c
<400> 870
aattcggcac gagggcaggg gcatccnnat cgagcgagtc gtctcctcgg agggtggccg 60
gccctctgtn gacctatcct tccagccctc gaagcccctg agcaagtcca gctcctctcc 120
cgagctgcag actctncagg acatcctcgg ggaccctggg gacaaggccg acgtgggncg 180
gntgagecet naggttaagg eceggteaca gteagggnee etggaegggg aaagtnetge 240
ctggtcggtc tcgggcgaag acagtnggga ncagcccgag ggtcccttga cttccaggtn 300
cccccggttc gcccaagtgg nctccggccc cgtaggttac aacatttncg antnngnccc 360
atcacgcnag ggcaaganat tagagaggga cgctttaaga gcagagcaca gcttnattca 420
gagaagttcc aggataaccc anttcgtttc ttgagtttac atccctttt tggnggataa 480
aaagcatctt tngccat
                                                                    497
<210> 871
<211> 568
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c
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<220>
 <221> misc feature
 <222> (435)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (484)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (510)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (533)
<223> n equals a,t,q, or c
<400> 871
ggncganacc aaccctcact aaagggaaca aaagctggag ctccaccgcg gtgcggccgc 60
tctagaacta gtggatcccc cgggctgcag gaattcggca cgagcgaaga tgaaattaac 120
cgccgcacag ctgctgagaa tgagtttgtg gtgctgaaga aggatgtgga tgctgcctac 180
atgagcaagg tggagctgga ggccaaggtg gatgccctga atgatgagat caacttcctc 240
aggaccetca atgagacgga gttgacagag etgeagteec agateteega cacatetgtg 300
gtgctgtcca tggacaacag tcgctccctg gacctggacg gcatcatcgc tgaggtcaag 360
gcacagtatg aggagatggc caaatgcagc cgggctgagg ctgaagcctg gtaccagacc 420
aagtttgaga ccctncaggc ccaggctggg aagcatgggg acgacctccg gaatacccgg 480
aatnagattt cagagatgaa ccgggccatn cagaggctgc aggctgagat cgncaacatc 540
aagaaccagc gtgccaagtt ggaggccg
                                                                    568
<210> 872
<211> 228
<212> DNA
<213> Homo sapiens
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<222> (188)
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<222> (197)
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<222> (198)
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<222> (221)
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<400> 872
aattcggcan agcttcaaac tctactccca ctaatagctt tttaatgact tctagcaagc 60
ctcgctaacc tngccttacc concnetatt aacctactgg gagaactete tgtggctagt 120
aaccangttc tnctgatcaa atatcactct cctacttaca ggaactcaac atactagtgc 180
acagecenat acteeenntg acatatttae cacaacacaa nggggget
                                                                    228
<210> 873
<211> 433
<212> DNA
<213> Homo sapiens
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<222> (348)
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<222> (363)
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<222> (368)
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<221> misc feature
<222> (422)
<223> n equals a,t,g, or c
<220>
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<222> (424)
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taaaagcaac agaacacttg cccttcccaa aatgaaggga gaggagatgg ggcttctctt 120
cctctcccct gagtgggaaa ggagctctgg gggctggtcc ttcagcacag aggaggggtc 180
actgaaagcg ttattgacca gctgctgtac cttctgcatc tcactccacg ctcactgcct 240
ttttctcttc cttgcattgg ctcctgtgcc tgtgccggct cctgcaaatg caaagatgca 300
aatgcacntc cttgcaanaa gagtgantgc aggcctttcc tgcgaatntg ggggatgggc 360
canttaanca ggaaccagac ttgcagcagg gcaggcatga cagtttccca aacctcttta 420
anangattca att
                                                                    433
<210> 874
<211> 84
<212> DNA
<213> Homo sapiens
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<222> (58)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c
<400> 874
agagagagag agagagagag agagagagag agagagagan cgngccgnat 60
teggececae atminteate acea
<210> 875
<211> 507
<212> DNA
<213> Homo sapiens
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<222> (28)
<223> n equals a,t,g, or c
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<222> (68)
<223> n equals a,t,g, or c
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<221> misc feature
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<220>
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<222> (384)
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<223> n equals a,t,g, or c
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<222> (386)
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<221> misc feature
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<221> misc feature
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<221> misc feature
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<221> misc feature
<222> (436)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (439)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (445)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (449)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (454)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (467)
<223> n equals a,t,g, or c
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 <222> (468)
<223> n equals a,t,g, or c
<220>
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<222> (471)
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<222> (474)
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<221> misc feature
<222> (486)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (490)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (498)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (500)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (503)
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<400> 875

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 agacgagnaa gaggaagaag gtggggagga agaggaggag gaagaagaag gtgatggtga 120
 ggaagaggat ggagatgaag atgaggaagc tgagtncagt tacgggccaa gcgggcagct 180
 gaagatgatg aggatgacga tgtcgatacc aagaagcaga agaccgacga ggatgactta 240
 gacagcaaaa aaggaaaatt taaacttaaa aaaaaaaagg ccnccgtgac ctttttaccc 300
 tccatttccc ttttcagatt ttaaacgtgg tcacctttcn gttagaaggg cccccccnnc 360
 canchttggg aattecentt teennnnttt nneaggggtt tttteannnn ecennneen 420
 aaccttgggn tttttnaana ggggngggna aaannnccca atttttnngg nccnttttt 480
 tttttnaaan ntttttnnan ggntttt
                                                                    507
 <210> 876
<211> 190
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (24)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c
<400> 876
ccaccttact accagacaac cttnggcaaa ccttttnccc aaataaagta taggcgatag 60
aaattgaaac ctggcgcaat agatatagta ccgcaaggaa agatgaaaaa ttataaccaa 120
gcataatata gcaaggacta acccctatac cttctgcata atgaattaac tagaaataac 180
ttttgcaagg
                                                                   190
<210> 877
<211> 315
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c
<400> 877
cagcagccaa aggettgtcc etgactttat atggetgetc etggegageg actgagtegt 60
ccgtgaggaa aaagaggcga ggcttttccg agatcgtctc agcgatggcg cttcggtcgc 120
ggttttgggg gttgttctcg gtttgcagga accctggtaa ttagtcttgc cccccttctc 180
ccagctcact cgcctgggct tgcacagtac attggaacgt gcgggttcta ttttgtattc 240
gacgtgccgg atcgaaatag agctcgcggn actgcgaaga ccacagtagg aagttaagga 300
cggggtcagt gctga
                                                                   315
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<210> 878 <211> 295

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<212> DNA
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 <221> misc feature
 <222> (44)
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<221> misc feature
 <222> (50)
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<222> (55)
<223> n equals a,t,g, or c
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<222> (59)
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<222> (62)
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<221> misc feature
<222> (68)
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<221> misc feature
<222> (69)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (82)
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<223> n equals a,t,g, or c
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 <221> misc feature
 <222> (83)
 <223> n equals a,t,g, or c
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 <221> misc feature
 <222> (127)
 <223> n equals a,t,g, or c
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<221> misc feature
<222> (132)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (137)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (142)
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<222> (151)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (160)
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<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (172)
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<222> (191)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (192)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (197)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (268)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c
<400> 878
aatnoggoac gagagacagt ttgctaattt aaaaatgtag catnocattn gtatntatnn 60
cnctcccnng ccaaaaagat tnnctaatac tgcttgtacc agccagagaa agatccaaaa 120
cactacncag cnctctngca engaggaaat ntttcccccn acatngactc enggectaca 180
tcagccaaac nnaaccnngg tggggtttgg atttgatagc caatnagttc tgtgctggtt 240
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gcaaagaatt gatatnttag atggnttnta atacntcagc agatttgtct ttncg
                                                                295
<210> 879
<211> 441
<212> DNA
<213> Homo sapiens
<220>
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<222> (430)
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ctgaggttta cagttagaaa atgttctcaa aggtttatca gttatgtatt gatgattggt 60
gggcactatc ttctggaatg aaatcggcca agaaaatggt tcaagggcat gggggttaga 180
gaatgtttct tttacctaaa aatgttaagc caactatgga agattggggt cgtgggggca 240
tgaaatacaa aattatgata atttatacag aactaggttt ctttatgttc tgcaagaagg 300
tttttattag ctaatttggg gagggggcc atgctgcagt atttttttc ctggggaaca 360
tgccatttct gatggggaag ttattttgtt tacaagagtt ggtttaccac acaacctga 420
atgaatgtgn caatggccta a
                                                               441
<210> 880
<211> 112
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (106)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c
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<220>

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 <222> (111)
 <223> n equals a,t,g, or c
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ggcanagcgg cattgggagg ggcgctctga gattaaagag ttttacctct gaaaaaaaa 60
 aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaanaaa aaaannaana na
<210> 881
 <211> 162
 <212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (23)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (136)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c
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<221> misc feature
 <222> (147)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (154)
 <223> n equals a,t,g, or c
 <400> 881
ggcagaccna acatagattt aantaaatac attancgggg gtaaaaatga aaatcntaac 60
ccaagacatg aacatttta gctgtaactt aactattaag gccttttccc acacgcntta 120
atagtcccat tttctntttg gncattngtg gctntgcccc at
                                                                     162
<210> 882
 <211> 117
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature ·
<222> (5)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c
<220>
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<221> misc feature

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<222> (117)
<223> n equals a,t,g, or c
<400> 882
aaaaaaaaa aaaaaaaaa naaaaaaaa aaanaaaana aanaaan
<210> 883
<211> 452
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (246)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (388)
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<221> misc feature
<222> (440)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (448)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c
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gnccaatnta tcaatcacgc actgcactca tcagggcaaa cctgggtacg cctgncaggt 60
caccygtncc ggnaattccc gggtcgaccc acgcgtccgc ccacgcgtcc gcccacgcgt 120
ccgcccacgc gtccgctcgt gccatgatct gtatttaatg gtttttattt ctcgggtgca 180
tttgagagaa gccacgctgt cctctcgagc ccagatggaa agacgttttt gtgctgtggg 240
cagcancete eccegeageg gggttaggga agaaaactat eetgegggtt ttaatttatt 300
tcatccagtt tgttctccgg gtgtggcctc agccctcaga acaatccgat tcacgtaggg 360
aaatgtttaa gganttctgc agctatgngc aatgtggcat gggggggcgg gcagtcctgc 420
ccatgtgttc cctcatctgn tcagccancg nc
                                                                   452
<210> 884
<211> 340
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (90)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (96)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (206)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (251)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c
<400> 884
aattcggcac aggtgaatcg cagcttctga gaccagggtt gctccgtccg tgctccgcct 60
cgccatgact tcctacagct atcgccagtn gtcggncacg tcgtccttcg gaggcctggg 120
cggcggctcc gtggcgtttt gggccggggg tcgcctttcg cgcgcccagc attcacgggg 180
gctccggcgg ccgcggcgta tccgtntcct ccgcccgctt tgtgtcctcg tcctcctcgg 240
gggcctacgg nggtggntaa ggnggggtc ctgaaccgcn tncnaacggg gtgctgggcg 300
ggcaacgagg aagcttaaac catgcagaac ctnaacgacc
                                                                    340
<210> 885
<211> 52
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (17)
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<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (49)
 <223> n equals a,t,g, or c
 <400> 885
 gncctatagt gagtcgnatt acaattcact ggccgtcgtt ttacaaccnc gt
                                                                     52
 <210> 886
 <211> 303
 <212> DNA
 <213> Homo sapiens
 <220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c
<400> 886
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gacctgcaga gccctgctgc gcagangtgc tgttttccag ccctccccaa atgcattctt 60
 caggtgcgtg tctgaagatc ttggttttgc tgtgcttgan acacagctga tgctttannn 120
 gctcaggttt actggcttta taacagtngg cataacgcct aaagcatccc ctctgcacgt 180
 gactgagcat gtncttaacc agaggagctg aacggagtgc agaaaatagt agttttaggg 240
 cttagtgagc agaggaagca gcttctctgg tgctttattt aatagaacat ttaagagtgc 300
 tca
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 <210> 887
 <211> 649
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
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<222> (201)
<223> n equals a,t,g, or c
<220>
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<222> (206)
<223> n equals a,t,g, or c
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<222> (262)
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<220>
<221> misc feature
<222> (438)
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<222> (448)
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<222> (553)
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<221> misc feature
<222> (575)
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<220>
<221> misc feature
<222> (582)
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<222> (586)
<223> n equals a,t,g, or c
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<223> n equals a,t,g, or c
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aggccctcgc gtcttgctga gcccggggag ttaggatgac gcgagcggtg agggagcccg 120
gaacgattcc ttcgcggaac aattgaggcg aagcctttgg gagtactttg tgggacggac 180
cctggcgggc cctgccanac ncacanggat ggcggcggaa gcggccgatt tggggctggg 240
ggccgccgtc cccgtggaac tnaagcggga gcgacgcatg gtgtgcgtgg agtacccggg 300
aattggtgcg tgatgtggct aaaatgctgc ccactctggg cggggaaaga aaggggtctc 360
cccggatctt acccagaanc cccccnagaa agettgggan cttgtttctt cccggggccc 420
aaggaaccca ttacttgncc cccccgntg tttgggccca aacccgcttt ccanttacca 480
ancaancett gettgettee ecettteenn ggnaaaaaaa aaaacaaaag gggggggaa 540
aaaaaagggg ttntcttggg ggccccttta aaggnccccc tncccnaagg ttcccctttt 600
tgaaaattgg gaaaaatcct ntgggggttc cttcttcccc ccccttttt
<210> 888
<211> 72
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (68)
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<223> n equals a,t,g, or c
<400> 888
gccctatagt gagtcgtatt acaattcact ggccgtcgtt ttacaacgtc gtnatgtggn 60
aaaccnnnta at
<210> 889
<211> 238
<212> DNA
<213> Homo sapiens
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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c
<220>
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<222> (27)
<223> n equals a,t,g, or c
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<222> (45)
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<222> (52)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (79)
<223> n equals a,t,g, or c
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<222> (95)
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<221> misc feature
<222> (132)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (158)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (163)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c
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<221> misc feature
 <222> (224)
 <223> n equals a,t,g, or c
<400> 889
ggcanagttt tttttttaa anaaggngaa aacacatgna atttnatttt tntttaacct 60
taagnttgcc aacttcttnc cctgaacagc atttntcttg ttttgatacc cacctacact 120
tatattagaa angnnetgea aactatttag ngaeteenet ttnaattnat ggnegtatge 180
ctnaagaatg ttttgaaata taaagcctat cccgtttgcc cagnttgtaa atttcagg
<210> 890
<211> 225
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (204)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (223)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c
<400> 890
acceacgeag teegegegte etecateacg tgtetgttet etggggagge agtaagggge 60
cgtggagctg gcctcggcct cggcatcggg agaggctgga cttcctgtct ctctgtgctg 120
aanggetgeg atggegeeg eteteaetga egeageaget gaageaeaee atateeggtt 180
caaantggct cccccatcct ctancttgtc ccctggncag tgnng
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<210> 891
<211> 130
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (87)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (90)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (96)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c
<400> 891
ggcacgagcg gcacgagggg gggcccggta cccaattcgc cctatagtga gtcgtattac 60
aattcactgg ccgtcgtttt acaactncgn gatganggaa atntaaaata cttccgagct 120
cgtatgttnt
                                                                    130
<210> 892
<211> 421
<212> DNA
<213> Homo sapiens
<400> 892
gcactgaaga acattactga gggggctaac cttggggact ccaatttgcc aatgatgagg 60
gaacatttga aagaactgca aattgtcctt gccagctctt gggatccttg gatacctggg 120
gccatttaag aagctagggg aattaggcca caacaccccc tgggacatcc gaaagctaca 180
ccacagatgc cagtggttca tgccttcttc ccgcaacttt aggaaaattt atttatttat 240
tgtttattag ttatgggggg agaggggaga tttaaaggac cagggacatg ggaaccaagc 300
catagggatc agaggggctt gtccttgaac actactgggg tatattcagg ctcatccacg 360
cagctgctgg gttcttgccc taacggccct cccctgcaac atccgtcttg gaggagaggc 420
t
                                                                    421
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<211> 307
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (264)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (305)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c
<400> 893
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gtaaagtggg gatggggtaa aagtggttaa cgtcactgtt ggatcaacaa ataaaggtta 120
cagttttgta agagaagtga tttgaataca tttttctgga actattcata atatgaagtt 180
ttcctagaac cactggagtt tctagtttaa tagtttgcta tgcaatgnac cacctaaaac 240
aatactttat attgttattt ttcngaaaga ctcaaaacac ctgtaattnt aaaccttaat 300
atganan
                                                                    307
<210> 894
<211> 453
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c
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<220>
  <221> misc feature
  <222> (76)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (129)
  <223> n equals a,t,g, or c
  <220>
  <221> misc feature
  <222> (403)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (404)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (405)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (453)
 <223> n equals a,t,g, or c
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 tatcccaaca aattanactc ccctctgtca tgtcaatatt ggaattgtag ctcacaggtg 120
 tttgcttana tcagtcatcc agagaggaag aatgatagag aaaacttgtg ctctgacact 180
 actgattctt acatagtgga acaatatctt tcttgataat gaattgtagt tattataaat 240
 cggtgatcac gtgaccctaa aggcacccaa ataaatcttt agtaaaataa ttctgatgac 300
 acaatgaatg aattattttt aaggcatttt cttggactag caatgtattc ttagagtggc 360
 gactgaatgt gcatacctca atgatccatg ttttactcat tcnnnggtcc ccaggccacc 420
 cagggcaacc aggccctcct ggacctcctg ggn
                                                                     453
· <210> 895
 <211> 596
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c
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<220>
 <221> misc feature
 <222> (283)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (312)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (457)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (525)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (528)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (537)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (553)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c
<400> 895
geocaegegt negeceaege gteegagaaa ttgaaacetg gegeaataga tatagtaceg 60
caagggaaag atgaaaaatt atagccaagc ataatatagc aaggactaac ccctatacct 120
tctgcataat gaattaacta gaaataactt tgcaaggaga gccaaagcta agacccccga 180
aaccagacga gctacctaag aacagctaaa agagcacacc cgtctatgta gcaaaatagt 240
gggaagattt ataggtagag gcgacaaacc taccgagcct ggngatagct ggtgccaaga 300
```

```
tagaatetta gnteaaettt aaatttgeee acagaaeeet etaaateeee ttggaaattt 360
aactggtagt ccaaagagga acagctcttt ggacactagg aaaaaacctt ggagagagag 420
taaaaaattt aacacccata gtaggcctaa aagcagncac caattaagaa agcgntcaag 480
ctcaacaccc actacctaaa aaatcccaaa catataactg aactnctnac acccaantgg 540
accaatctat cancetatag aagagetaan ggtaggataa ggaacatgaa aacatt
<210> 896
<211> 351
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c .
<400> 896
gaaagaagga aactagctcg gaccgtgcag gtttgtaggt ctgttggcct gtaggtttcg 60
gcacaagttt cagcgagaga aggagaaaac tgccttggtt ggaaccttgc agtgcaggga 120
aaggggtgtg gcggcctttg ctggggaaat ggcggacgac aagtggggcg gaggaggcct 180
gcntccggaa agtcagtaga attcatcaca agagagctac aagagcctgg aagaagctga 240
agacttgcta ccctccatcc ttacttcacc ctgggacctg aggagacctc ttcaatcaga 300
aatggaaaca gagagattct cctgggaaac ccctgcccca taaacggccc t
<210> 897
<211> 72
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c
<220>
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<221> misc feature

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<222> (68)
 <223> n equals a,t,g, or c
 <400> 897
 ggcanaggna gagagagag gagaactagt ctcgtgtttt ttttttttt ttttgggnna 60
 aaaatttnat tt
<210> 898
<211> 383
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (335)
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<223> n equals a,t,g, or c

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<220>
<221> misc feature
 <222> (359)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (366)
<223> n equals a,t,g, or c
<400> 898
ggcacgaggg ggaaatcgcg gtcttagcat ccggcgcgcg gcggttggaa ttgctgcgcc 60
cacgaggcaa ccgctccgga acgccangtg ggggcgaggc gtctcggagt ctcagagaca 120
ccaaggcccc tgcgacaagg tggctgcagc taggccgggg gcgtcaggac gacggnagcg 180
ggttcgggtc ggtgacacgc agacctgagg gagctgggcc cgcntnttcc gcccgcgccc 240
cagcccttgc agatcgagat ttgcgtccta nnatggggaa aaaagcagag gccagggcgc 300
cgattttatt tggagagaag caagcttctt tgncntcttt tgggattagg aaatttcana 360
cntggnaaaa atggtgtgtg gtt
                                                                    383
<210> 899
<211> 172
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (161)
<223> n equals a,t,g, or c
<400> 899
ggcacgagct tgttcgtctc actggtgtga ctccagcatc ccctttgctc gaaatggacc 60
ccaactgctc ttgcgccact ggtggctcct gcacgtncgc cggctcctgc aattncaaag 120
agtgcaaatg nacctcctgc aanaagagct gctgttcctg ntgccccgtg ga
<210> 900
<211> 101
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (99)
<223> n equals a,t,g, or c
<400> 900
gcagcagcac aggcgcggt cccgggaang gccggctctn ctcgcgccta gatntggaat 60
ctccttcacg aaaccgactc ggctgtggnc accgcgcgnc g
<210> 901
<211> 358
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (24)
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<223> n equals a,t,g, or c
 <220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (358)
<223> n equals a,t,g, or c
<400> 901
ggcacgagga cagtctgcct gggncacagc cctctnaccc tggtactgca tgcacgcaat 60
gctagctgcc cctttcccgt cctgggcacc ccgagtntcc cccgaccccg ggtcccaggt 120
atgeteceae etecacetge eccacteace acetetgeet agttecagae acetecacge 180 .
ccacctggtc ctctcccatc gcccacaaaa gggggggcac gagggaacga gcttagctga 240
gctgggagga gcagggtgag ggtgggcgac ccaggattcc ccctcccttc ccaattaaag 300
atgagggtat taaattgtct tggtttttaa tttantatta ntttttnnt ttttccan 358
<210> 902
<211> 423
<212> DNA
<213> Homo sapiens
<220>
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<221> misc feature
<222> (343)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c
<400> 902
atttcctggc tgacctgcta gtccccacaa aagccaggtt ccctgcattt gaactctgaa 60
aggatagcat gccacctgca actcactgca tgaccctttc tgtatattca aacccaagct 120
aagtgcttcc gttgctttcc aaggaaacaa agagtcaaac tgtggacttg attttgttag 180
ctttttcag aatttatctt tcattcagtt cccttccatt atcatttact tttacttaga 240
agtatccaag gaagtctttt aactttaatt tccatttctt cctaaaggga gagtgagtga 300
tatgtacagt gttttggaga tgtatacata tattccagaa ctngggggaa tcttattaag 360
ttatggatat accaccgtaa cggtcnaaaa ngtttaaaga acccatncgg taaggtaatn 420
ggg
                                                                    423
<210> 903
<211> 362
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (64)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (177)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (273)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (305)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c
<400> 903
attcggcacg agagtattta gttggggcat gaataagtaa agtatgtaaa gaggcgtgat 60
agtnagggct gagtgggtat caccttctcg gtgagaaaat caatttcctg agagtnttgt 120
aaactaggac ttagagtact aatcatggtg tttttcagaa attatatata tattttnaag 180
tcagggtctc accgtgtcgc ccaggctgga ggcagaggtt gtggctcgtg ccgaattcga 240
tatcaagctt atcgataccg tcgacctcga ggngggggcc cggtacccaa ttcgccctat 300
tagtnagtng gtattacaat tcactgggcc gtcgttttta aaacgggggt nactggggaa 360
ac
                                                                    362
<210> 904
<211> 309
<212> DNA
<213> Homo sapiens
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<222> (292)
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ggcggtccgg ctctcgatgg tggcgtgacg ggggcggggg tggcggngcg ttctcctcgg 120
ttgggaagga accagcccgc gaacccaggn cgggaagggg gntcggcctn ngggggaang 180
gactgacatg tctctcgaag accccttttt tgtagtccga ggcgaggtgc agaaagcggt 240
gaacacgggn ccgcgggctg taccagngct ggtgcganct cctgcaagaa ancncggcgt 300
tcggaacgc
                                                                    309
<210> 905
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<211> 388

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<213> Homo sapiens
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<222> (61)
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<222> (62)
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<222> (91)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (128)
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<222> (129)
<223> n equals a,t,g, or c
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<222> (191)
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<221> misc feature
<222> (251)
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<221> misc feature
<222> (304)
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<222> (318)
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<222> (364)
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<222> (375)
<223> n equals a,t,g, or c
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<222> (381)
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nnctgnaccc aggagcagct gcaccacttg naaagtcgcc tcatctccta agcactcctt 120
teccetgnng teccettega accetgaage cetetggtge gegetetgee egatgeacag 180
ccacctaagc nagcccccag gttagaaacg tgggttaaag ctcttgcctg ccccgttaaa 240
gcttcactcc naccctttta agcgtcctgc cccttcacct tgaacccggg ttcccccatt 300
ccanttcctg ggctttgnca tgatttggtt ggttcaatgg ttccttcttt cctgaggggg 360
cttnagggtt ttggnggggg ntaaggtt
                                                                    388
<210> 906
<211> 349
<212> DNA
<213> Homo sapiens
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<222> (16)
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<221> misc feature
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<222> (50)
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<222> (91)
<223> n equals a,t,g, or c
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<222> (170)
<223> n equals a,t,g, or c
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<222> (316)
<223> n equals a,t,g, or c
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<222> (337)
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agggtgtgtt tcaacttatg tacgtactgt ntcatgcagg tttatagcac ggtagagtag 120
aaggcggctt ctgattttaa gggtattttt agaattcatt cctgaatgan gggttcagac 180
acccagtete eteggaacag gggtgagggg tegactgane tttgttgaga agcetecagt 240
taaggetteg ggegggtete catgttgtat tgtgtgttta etgagettee caetggttag 300
aagatgacac atttgnccat cgtcctgtgt atctganatt cccagggga
<210> 907
<211> 469
<212> DNA
<213> Homo sapiens
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<222> (38)

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<223> n equals a,t,g, or c
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<222> (138)
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<221> misc feature
<222> (141)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (161)
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<222> (182)
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<221> misc feature
<222> (189)
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<221> misc feature
<222> (201)
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<222> (216)
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<222> (279)
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<222> (331)
<223> n equals a,t,g, or c
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<223> n equals a,t,g, or c
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<222> (351)
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<222> (395)
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<222> (.460)
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<221> misc feature
<222> (462)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (465)
<223> n equals a,t,g, or c
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cgatagaaat tgaaacctgg cgcaatagat atagtaccgc angggaaaga tgaaaaatta 120
taaccaagca taatatanca nggactaacc cctatacctt ntgcataatg aattaactag 180
anataactnt gcaaggaga ncnaagctaa gaccenegaa accagaegag ctaectaaga 240
acagntaaaa gagcacaccc gtatatgtag caaaatagng ggaagattta tnggtagagg 300
cnacanacct accgagectg gngatatget ngntgteeaa gataagaate ntaggttaac 360
ttttaaattt ggccacagaa cccttttaaa tcccnttgga aatttaactg gtaagcccaa 420
agaggaacaa gttttttgga cactngggaa aaaaccttgn anaanagag
<210> 908
<211> 95
<212> DNA
<213> Homo sapiens
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<222> (78)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (79)
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<222> (80)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c
<400> 908
aaaaaaaaa aaaaaaannn ngggggggc ccngt
                                                              95
<210> 909
<211> 373
<212> DNA
<213> Homo sapiens
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<222> (80)
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<222> (225)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (271)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (330)
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<220>
<221> misc feature
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<222> (334)

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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (367)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (372)
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tttcctgcca aaagtgccan agatcaactt ggaaaacaaa atcctcacag agggagagta 120
aagaacactt gattagtctc attagcacct gtagctactt ttctaaagtt aattcctgaa 180
ggcccttgaa agcttcacta tgagattgaa tttgcaccat tnctncaatg gtctttgcaa 240
tgagggatgg gggatagtgt gatggtcctt nccaaccatc cctggaagaa gaagccaaaa 300
aactttttcc cgaaaggagt tctttcaccn aagnagntcc catctgggca ggaaattacc 360
tccgggnaac ana
                                                                    373
<210> 910
<211> 721
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (516)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (624)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (627)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (691)
<223> n equals a,t,g, or c
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gtatagatca tacttatgaa ggtgataact gacacgtgtt ccctgaattt taatttgata 60
ggcaatacat ctacccactc cattatttt taaaacttca tttaatagtt taaacaagat 120
tggttttgtt ttcaattttt attcactctt catagaatca caattacctt tatatatcat 180
atgttattgg aagagattcc tcagtaatct ccaatctctc atagtgcctc acagggttgg 240
tcaatggctt ttggaactgg aaggacctta gaacttatct gttatgctcc tgatagccaa 300
tagcagatag aagcttgcaa tcaagagggt aggacatgtg ttcttcaatg gatatcaaag 360
gaagaggttg caaaccaaag ccatttggca agccctgtag cctgggccat ttaagacagg 420
ggcggtctca gccaaattgc acccatttaa ctatcccaaa gagccacaag tgcctacaac 480
ccaggcccta agttgatgaa gaaaaagtca aggaangagg tgatcaattg gaaatattcc 540
catcaaatgg gtaaacttat ttagaaaatg ggcatattag aaaaagcctt ccaagatgat 600
tttggataat aaaagtggat ttgnggnaat gggaataact ctggttaagc cctacattat 660
cccttacatt tggtttaggg acctactgac ntaaattaag gaaacatggt aaagtacctt 720
<210> 911
<211> 564
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c
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<222> (366)
<223> n equals a,t,g, or c
<220>
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<222> (370)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c
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<222> (411)
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<222> (475)
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<222> (481)
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<222> (493)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (494)
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<220>
<221> misc feature
<222> (505)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (525)
<223> n equals a,t,g, or c
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tgggacccag tagtttccca tcccaaacct gctttccgag aagggcttca aacccaaaat 120
gtgaatcccg cctccctct cagccagaac tgtggactcg tcccggggag gggcggtggg 180
tgggggggg ctggcgggaa atttcggttt tggcgcgctc cctgcggcga cgctccatcg 240
tgcgctctcc tcttcccccg gtggtctcct cgctcgcctt ctggctctgc atgccctgct 300
ctgaagagac acccgccatt tcacccagta agcgggcncg gntgcggaag tgggcggcat 360
gcagnnccgn tttgcncggt tttcgagcaa gccaaggccc caacggggtt ngggcgcgcg 420
9999ttaaga ctgtaaaatg gctangatta aacataccac tatggagaaa ttttntgaaa 480
nggaattcaa aanngtcctt ttggngtaat gaaaatggtc aagtnaggtt ggtgaaaaat 540
ttttgattag actgggtaaa atga
                                                                   564
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<211> 408
<212> DNA
<213> Homo sapiens
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<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (383)
<223> n equals a,t,g, or c
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<222> (384)
<223> n equals a,t,g, or c
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<222> (395)
<223> n equals a,t,g, or c
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atacgctatt gtcctgcccg ttagagcagc cagcgggtac agaatggatt ttggaagagg 120
gagtcaccac tggacctcca aggaagccac gtgcagacat ctacaacctt cgatctcctg 180
acgagtttat tgttggccaa aaccaggctt tgattgaacc aggatgaatg cgggtgttgg 240
aagtagaata tatatataca tataaaattg gttgggagcc acgtgtacca gtgtgtgttg 300
atcttggctt gattcagtct gccttgtaac agaactggcg atggaatatg agaggagccn 360
ctggaaagaa aaggacagan ccnntgcttt catgnaagtg agatctgg
                                                                    408
<210> 913
<211> 355
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c
<220>
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<221> misc feature

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<222> (246)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (331)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c
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gccatcctgg cttcgggggc gccggcctcc aggccccggg aaggagaact cctagggcta 120
ctaaatcctc gctggaggng ntggcttctt atgcgggagg acgtggcgga gggcctgact 180
ttgggagccg ggggttgact ggattggtga ggcccgtgtg gctacttctg tggaagcagt 240
gctgtnagtt actggaagat aaaagggaaa gcaagccctt ggtgggggaa atatggctgc 300
gatgatggca ttcttaggac accttggnta ntantgaaac aantanctct gagca
<210> 914
<211> 377
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (143)
<223> n equals a,t,g, or c
<220>
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<222> (275)
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<221> misc feature
<222> (298)
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<221> misc feature
<222> (311)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (314)
<223> n equals a,t,g, or c
<220>
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<222> (328)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c
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cgaggnetge tggcgccggg ggccccgtgc gcggcctgct cgtcggcctc gtgcgccaac 60
aacgccttcg ccttcggtcc ggagctcagc agcctcatca cgccgctcgc catccagacc 120
cacaactttg ccgccgtggc cgncgccgcc tactaccgca gtcagcagca gcagcagcag 180
cagggeetgg egeceeege geagegeegg egeegeeeag egegaeeete eeegeegggg 240
ccgccgcacc tccctcgccg cccttcagct tccanctgcc gcgccggcct tgtccgantc 300
gcccgtgttt ngangcggcc cccaagcncc ccgggattcg ctgttcggaa cgggaaagta 360
acttaaancg ggttcct
                                                                    377
<210> 915
<211> 509
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
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<222> (133)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (166)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c
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<221> misc feature
<222> (226)
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<223> n equals a,t,g, or c
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<222> (431)
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<222> (493)
<223> n equals a,t,g, or c
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<222> (501)
<223> n equals a,t,g, or c
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cctctccctt ccaaattctt ggtgccacca ttgagaaact ccaggattgt cctgcagatc 120
gacaacgccc gtntggctgc agatgaactt ccgaaccaag taagtntctc tntcctgggg 180
gctgcagaag ccaggactgg ggtaggggtt ggggggttta ggaatntgcc ctcacctagc 240
ctagatggcc tgaagctaaa cccccctatg gactcctgaa ctctggggag gtagggaagt 300
cttcagagat gctgaggaag ctctgcctgg ctgcaactat tttccttgaa aggtttgaga 360
cggaacaggt ttgcgcatga gcgtggtagg ccgacatcaa cggctgngca ggtgctggat 420
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gagctgacct ngccagaccg acctggagat gcaatcgaag gcctaaggag agttggctac 480
 tnaagaggac ctnagagtgg nttaagttg
                                                                      509
 <210> 916
 <211> 135
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (25)
 <223> n equals a,t,g, or c
· <220>
 <221> misc feature
 <222> (58)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (62)
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 <221> misc feature
 <222> (102)
 <223> n equals a,t,g, or c
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 <222> (115)
 <223> n equals a,t,g, or c
 <400> 916
ntaccagcaa attacttcat catcnagatt atccattcag ttgatcctaa ttagcaanga 60
 tnacaacgta acacaangct tacttatagc acccaacaaa antgtctctg tgganccact 120
tcccagtgaa ctaca
                                                                     135
<210> 917
<211> 230
<212> DNA
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<213> Homo sapiens
<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (92)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (95)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (122)
<223 n equals a,t,g, or c
<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (166)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (192)
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<223> n equals a,t,g, or c

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<220>
 <221> misc feature
 <222> (207)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (228)
 <223> n equals a,t,g, or c
<400> 917
 togaccoacg cgtccggctt ctccgctcct tctaggatct ccgcctggtt cggnccgcct 60
gcctccantc ctgcctctan catgtccatc anggngaccc agaagtccta caaggngtcc 120
 anctctgggc cccggggctt cagcagccgn tcctacacga gtgggnccgg ttcccgcatc 180
agetectega gntteteceg agtgggnage ageaacttte geggtggnet
                                                                     230
<210> 918
<211> 529
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c
```

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<220>
 <221> misc feature
<222> (407)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (410)
 <223> n equals a,t,g, or c
 <220>
 <221> misc feature
<222> (427)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (461)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (481)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c
<400> 918
ggcagagett tttcctcctc ggctgcggcc gttgtcctcg gagcgcggtc cctgtattgg 60
tetectgete ctagaggttg agaacaaaaa catgcacetg gagttteece ggageeetet 120
gcgtggttga gcttcggtgg aatttcgggg ctcttggctg ccagcgcgct tgcctggtag 180
caacagaaac cagtcctgct cgcctccgtg gacatttcat taccatccag aagtgtctcc 240
```

<223> n equals a,t,g, or c

```
cactgaaggc atccgtggtt gtttttaagc cacaaaaaag ccacanccaa gatcacntga 300
caaccaccct gacaagtgtt ccatgatgtt gggnccngag ggaggtgaag gtttttgtgg 360
 tcaagttcct tggnctgccc tgtncccgtt tttttgagga cgtgcanaan ttcccttttg 420
 actgaangnt tcaagttggg gccccaaggt tccatttaat nacattgggg gggcaagcaa 480
 nattggtgng gtttttttga attggttcaa aggtgtttna aaatgnccc
                                                                     529
<210> 919
 <211> 238
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (88)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (156)
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<220>
 <221> misc feature
 <222> (178)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c
<400> 919
nagccctgcg gatggtcctc catggntccc tagtgccctg gagaggaggt gtntagtgaa 60
agagtagtcc tgggaagatg ggcctctntg aagnagccac ggggacagca tcntgcagat 120
ggtcctggcc cttntcccac cgacctgtct acaagnactg tgcctcgtgg accctccnnt 180
ctggcacagg aagctggacc ctaaagtccc ttgtnccacc ggccaggaan tggtagcc
<210> 920
<211> 442
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature .
<222> (262)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (268)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c
```

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<220>
 <221> misc feature
<222> (385)
<223> n equals a,t,g, or c
<400> 920
ggcacgagag attaagttag gacaagaagc aagagttcaa ggatagaagg cctactgaag 60
ctcgagtgat ttgagaaaac tttacaaagg tggaaaatct acgtgggcct ccgaaagtca 120
gatttgacaa gatcaaagct gcaggaaaat ggacagtgag gttcagagag atggaaggat 180
cttggatttg attgatgatg cttggcgaga agacaagctg ccttatgagg atgtcgcaat 240
accactgaat gagetteetg ancetganea agacaatggt ggeaceaeag atetgteaaa 300
gancaagaaa tgaagtggac agacttagcc ttacagtacc tccatgagaa tgttccccc 360
attggaaact gacgtttggc tnctntcttg tggatggatt ttctcaaagt acacagataa 420
agcatggttg tttcagtcgt cc
                                                                    442
<210> 921
<211> 444
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c
<400> 921
caatggcggg cgcccctccc ccagcctcgt tgccgccttg cagtttgatc tcagactgct 60
gtgttagcaa tcagcgagac tccgtgggca taggaacctc cgagccaggt gcgggatgta 120
atctcgtggt gcaccgtttt ttaagccagt ccgaaaagcg caatattcgg gtgggagtga 180
cccaattttc caggtgcgtc cgtcacccct ttctttgact cggaaaggga actccctgac 240
cccttgcgct tcccaagtga ggcaatgctc tccctgcttc ggctcgcaca cggtgcgcgc 300
anccactgac ctgtgcccac tgtctggcac tccctagttg agatgaaccg gtacctcaga 360
tggaaatgca gaaatcancc gtcttctgcg tcactcatgc tggagctgta gaccggagct 420
gttcctaatn cggcatttgn tcct
                                                                   444
```

<211> 394

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<212> DNA
 <213> Homo sapiens
<220>
<221> misc feature
<222> (268)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (318)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c
<400> 922
gaaccgggta gcttggccag gttgtgagga accgcagcgc gccgcaggac cgggccgctg 60
agectgeage egeceegege egtgacetge gaccetagae ecegaetece tttggeteag 120
cccgcgcgcc ccaggcccgg cccgggcggc gcgacgggag gatgagcggc gggcggga 180
aggaggagee geeteageeg eagetggeea aeggggeeet caaagtetee gtetggagta 240
aggtgctgcg gacgacgcgg cctggganga taagataatt ttaagngtga ctantggttc 300
cgacaatatt ctgtgtcntg gtgtcaattt gggattttcc ataacaggtt cttggaatac 360
```

```
agatttgctn anantcagat ctgtactnaa ttca
                                                                     394
 <210> 923
 <211> 352
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <222> (331)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> · (341)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c
<400> 923
gcaaaacccc actctgcatc aactgaacgc aaatcagcca ctttaattaa gctaagccct 60
tactagacca atgggactta aacccacaaa cacttagtta acagctaagc accctaatca 120
actggcttca atctacttct cccgccgccg ggaaaaaagg cgggagaagc cccggcaggt 180
ttgaagctgc ttcttcgaat ttgcaattca atatgaaaat cacctcggag ctggtaaaaa 240
gaggcctaac ccctgtcttt agatttacag tccaatgctt cactcagcca ttttacctca 300
cccccaaaaa aaaaaaaaaa aaaaaaaacc ncggggggg ncccggnncc na
<210> 924
<211> 436
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c
<220>
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<221> misc feature
 <222> (433)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c
<400> 924
ccactccacc ttactaccag acaaccttag ccaaaccatt tacccaaata aagtataggc 60
gatagaaatt gaaacctggc gcaatagata tagtaccgca agggaaagat gaaaaattat 120
aaccaagcat aatatagcaa ggactaaccc ctataccttc tgcataatga attaactaga 180
aataactttg caaggagagc caaagctaag acccccgaaa ccagacgagc tacctaagaa 240
cagctaaaag agcacacccg tctatgtagc aaaatagtgg gaagatttat aggtagaggc 300
gacaaaccta ccgagcctgg tgatagctgg ttgtccaaga tagaatctta gttcaacttt 360
aaatttgncc acagaaccct ctaaatcccc ttgtaaattt aactggttag tccaaagagg 420
gacagetett tqnqnn
                                                                    436
<210> 925
<211> 439
<212> DNA
<213> Homo sapiens
<400> 925
cccaaaccca ctccacctta ctaccagaca accttageca aaccatttac ccaaataaag 60
tataggcgat agaaattgaa acctggcgca atagatatag taccgcaagg gaaagatgaa 120
aaattataac caagcataat atagcaagga ctaaccccta taccttctgc ataatgaatt 180
aactagaaat aactttgcaa ggagagccaa agctaagacc cccgaaacca gacgagctac 240
ctaagaacag ctaaaagagc acacccgtct atgtagcaaa atagtgggaa gatttatagg 300
tagaggcgac aaacctaccg agcctggtga tagctggttg tccaagatag aatctttagt 360
tcaactttaa atttgcccac agaacctcta aatccccttg taaatttaac tggtaagtcc 420
caaggaggac agtctttqq
                                                                   439
<210> 926
<211> 183
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c
<400> 926
caatctatca ccctatagaa gaactaatgt tagtataagt aacatgaaaa cattctcctc 60
```

```
cgcataagcc tgcgtcagat taaaacactg aactgacaat taacagccca atatctacaa 120
 aaa
                                                                 183
<210> 927
<211> 432
<212> DNA
<213> Homo sapiens
<400> 927
cggaagtgga ggaaagatgg aggaccatca gcacgtgccc atcgacatcc agaccagcaa 60
gctgctcgat tggctggtgg acagaaggca ctgcagcctg aaatggcaga gtctggtgct 120
gacgatccgc gagaagatca atgctgccat ccaggacatg ccagagagcg aagagatcgc 180
ccagctgctg tetgggtcct acattcacta etttcactgc ctaagaatcc tggacettct 240
caaaggcaca gaggcctcca cgaagaatat ttttggccga tactcttcac agcggatgaa 300
ggattggcag gagattatag ctctgtatga gaaggacaac acctacttag tggaactctc 360
tagcctcctg gttcggaatg tcaactatga gatcccctca ctgaagaagc agattgccaa 420
gtgccagcag ct
                                                                432
<210> 928
<211> 439
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (86)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (439)
<223> n equals a,t,g, or c
<400> 928
agacaacctt agccaaacca tttacccaaa taaagtatag gcgatagaaa ttgaaacctg 60
gcgcaataga tatagtaccg caaggnaaag atgaaaaatt ataaccaagc ataatatagc 120
aaggactaac ccctatacct tctgcataat gaattaacta gaaataactt tgcaaggaga 180
gccaaagcta agacccccga aaccagacga gctacctaag aacagctaaa agagcacacc 240
cgtctatgta gcaaaatagt gggaagattt ataggtagag gcgacaaacc taccgagcct 300
ggtgatagct ggttgtccaa gatagtatct tagttcaact ttaaatttgc ccacagaacc 360
```

```
ctctaaatcc ccttgtaaat ttaactgtta gtcccaagag ggacagctct ttngncacta 420
gggaaaaacc ttgtagggn
<210> 929
<211> 433
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (432)
<223> n equals a,t,g, or c
<400> 929
ctgcattcag cattttaagg atttatattc atagtcacgc gccgcttaag gaggattcat 60
tctgtgaaat gagttgttag gcagtttcat tgtgcgagca tcatagggtg aacttacaca 120
aacctaggtt gcagagccta ctgcacacct cggctgtgtg gtctaacctg ttgctcctgg 180
actgcaaacc tgtacagcct gttactgtcc tgaatactgc aggcagttag aacagagtgg 240
tacatagttg tgtttctaaa catatcggaa cctagaaaag gtacagtaga aatacggtat 300
tacaatctta tgggaccact gtctgttgtc ggtctgttgt tgactgaaat gttatgcagt 360
acatgggctg ccatgagatt accttganaa ttttgcctga tatgaaacct agatatnacc 420
ttaaatatgg qna
<210> 930
<211> 390
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (360)
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<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c
<400> 930
gtcccccact cggagctcct ccagcccgct tcccgtattt gcagcatgtc ccggcgttca 60
cagagettgg etgeeteete tgteecagga gagagatget tagagetgte eteecaggga 120
gtcatgtcag cctctagggt gtgcatggga gctgagggga cactcctgct gcctccctgg 180
agtggtaatt aaccgggact ttcctcctcc cagaaccaac atcccgggta acggttgggc 240
tgaaggacag gtgacgtgtc cctaactccc ccccttccct gcccgaggtt ccggcatcca 300
acgtcttggc ttcctggtct tcaagcagga cnaccgattg gcttttctga agangcaagn 360
ccttaacctg gtaanttaaa acaaccanaa
                                                                    390
<210> 931
<211> 320
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (232)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (296)
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<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c
<400> 931
eggtaegegt gggeggaege gtgggeggae gegtggggee ateteacete tteattetet 60
tgttacattt gaagcagttg atataatggg tttatacttt aaaagataga catggtgcca 120
tgaagttggg gagttgggtg aattatecea ttetagttae agangagett teettaaatg 180
ccctttaact tctaggtttt gttcnagaag ttcatttct gagttaaaag tnattttcat 240
atatgtttgg gggaaaatta actcatcctc aaaaagaatc cttattaggt tanttnaact 300
ccttaaaact naaccnaatc
<210> 932
<211> 265
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c
<400> 932
aaaaaaagata tattaacagt tttagaagtc agtagaataa aatcttaaag cactcataat 60
atggcatcct tcaatttctg tataaaagca gatcttttta aaaagatact tctgtaactt 120
aagaaacctg gcatttaaat catattttgt ctttaggtaa aagctttggt ttgtgttcgt 180
gttttgtttg tttcacttgt ttccctccca gccccaaacc ttttgttctc tccgtgaaac 240
ttacctttcc cttttncttt ctctt
                                                                    265
<210> 933
<211> 475
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c
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<220>

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<221> misc feature
<222> (12)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c
<400> 933
gtggnngcgc tnctagaact atggatcccc cggctgncag gattacggnc acgagcaagg 60
gcagtgttac acttatgagg aactgtctct agccatccag gnaagtacta ctgggtctga 120
gggatggaaa gttcttcctg ctatgaatga gagtggactc ttcccctcac ccccaactga 180
aaccacaaac aaccagaatc ttctggaatt ctgacttaga gtcgttgtta tagaagacct 240
tgttgctatg gaacatgaaa ctgtgtgtca gatggagaga tccccttaac ctaagagcct 300
taaatagccc tgaaagtaca ctgggacggt ttgcgatgga attaaaattg gaagtgatat 360
ttttaggtgc tcttgaaagc tttctgggga ctcaaaatta tcaaaagtca gggacagtcc 420
ggaggaagag cgtctgcaaa actgggttcc tagaagtata gancggactt agctg
<210> 934
<211> 322
<212> DNA
<213> Homo sapiens
<400> 934
ataaacaaca totocagaca gatotacotg accgacaaco otgaggoagt ogogatoaag 60
ttgaatcaga ccgctctgca agcagtgact cccattacaa gttttggaaa aaaacaagaa 120
agctcatgcc ccagccagaa cctgaaaaat tcagagatgg aaaatgaaaa tgacaagatt 180
gttcccaaag caacagccag tctacctgaa gcagaggagc tgatcgcgcc tggaacgccg 240
attcaattcg atattgtgct tcctgctaca gaattccttg atcagaacag agggagcagg 300
cgtaccaacc cttttggtga aa
                                                                   322
<210> 935
<211> 378
<212> DNA
<213> Homo sapiens
```

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<220>
 <221> misc feature
 <222> (121)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c
<220>
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<222> (356)
<223> n equals a,t,g, or c
<220>
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<222> (365)
<223> n equals a,t,g, or c
<400> 935
ggcagaggag aaactgtgtg tgaggggaag aggcctgttt cgctgtcggg tctctagttc 60
ttgcacgctc tttaagagtc tgcactggag gaactctgcc attaccagct cccttcttgc 120
nnangccggt gggaaacata catttattca tgccagtctg ttgcatgcag gctttttggc 180
ttcctacctt gcaacaaaat gaattgcacc aactccttag tgccgattcc gcccacagag 240
agtcctggag ccacagtctt ttttgctttg cattgtagga gagggactaa gtgctagaga 300
ntatgtcgtt ttccctgagc taaccnngag cgttcgtgga actgggatca aactgntttc 360
agggnaaaag gaaaaaa
                                                                    378
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<211> 450
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c
<220>
<221> misc feature
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<222> (418)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c
<400> 936
ggtggtaagt ggcttcgtgg tctttatagc tgttactctt ttgtactttg tcttttctt 60
ttattttctt ttgagcgatt gtgcgaacat agcatagcac gcactatgcc ttctgtgttg 120
tagctgcctg gccagggcga ctggcggata aggtcttgtg cgtggcctcg angcttaaaa 180
gtaacagtgg ggctttgtga angacaaaat ggcgatggcg ggccgtgtan gtcccccttc 240
ctatgatgaa agaccttttc acagacctgt tactgaactc cgtgaagata aatantctga 300
aganatnggc cctgcaagcc tcttgcttac ccgtcctgtt ccaaaaaaat acgttttcca 360
aaatgccctg aatttgaact aatntcttat tgggcncccg ntctgccaga tttacccnca 420
ctttggaaca aaaaaaancc ttttgtttgc
                                                                    450
<210> 937
<211> 209
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (175)
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<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (187)
 <223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c
<400> 937
agtcttaaga ccaannaagc acgnaagcgc cgtgaagagc gcctccaggc caagnaggag 60
gngatcatca agactttatc caaggaggaa gagaccaaga aataaaacct cccactttgt 120
ctgtacatac tggcctctgt gattacatag atcagccatt gaaaataaaa caagncttaa 180
tctgcanata ngacaagnan aaaatttcg
                                                                     209
<210> 938
<211> 437
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (366)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (425)
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<223> n equals a,t,g, or c
 <220>
 <221> misc feature
 <222> (428)
<223> n equals a,t,g, or c
<400> 938
cagaactgat agaacaaaca ctactcttt gaatttgatg gttcgtgtcc tttaaagtgt 60
ttgaggacct atgcagagcc tgtaacactt gggtagtacc tgctaggaca atttcttggc 120
aattgtctta ctactaggga tcagtaagat ttagattctg agcccataat ggcaacagcc 180
ccctcaccta tgggaagctg acttccctca gtcgggcact tctcatgggg gctgaacatg 240
gttcctgcca ttctgttacc cactctccca ggtgagccct ggattggctc ccagaaggcc 300
ttgtaaaaat ccatagccat cctgcaggca gtgggagcaa caggggcttt catagcttca 360
tttccngtct tgcagacaag gaccctgggn aacatgtgct gctaatanga taattactcc 420
gttgnccnaa ttaccag
                                                                    437
<210> 939
<211> 450
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c \cdots
<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c
<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c
<400> 939
cngacgcgtg ggtcgaccna cgcgtccgcc cacgcgtccg cccacgcgtc cgacgacaga 60
agggtacggc tgcgagaaga cgcagaaggg tacggctgcg agaagacgnn agaaggggct 120
tttcacattc gggaaacgtc gggattaggt gaaagtacgt agttgtcttt cgtaagtcaa 180
aatgataatt gggccgaaac ttactgcctt acctaaaagg cagcgcagtc aggatattgg 240
taggtcgggg gcggctttgg aaacccttaa gtttacaagc atgcgcggac ttgagtgctc 300
attaggtcgc cgggcgtcca cgtgcagccc tggaccctga accccggcgt gcgttggccg 360
tnggcctcgg ggaaaagttc cgtgcactcg gggantccgg tgaagctgtt cagccgtctg 420
tgncatgtgg ccatcttgan tctactctgt
                                                                    450
<210> 940
<211> 233
<212> DNA
<213> Homo sapiens
<400> 940
ggagcgcctg tgggagccct ggagggaact ttcccagtcc ccgaggcgga tcgggtgttg 60
catccatgga gcgagctgag agctcgagta cagaacctgc taaggccatc aaacctattg 120
atcagaagtc agtccatcag atttgctctg ggcaggtggt actgagtcta agcactgcgg 180
taaaggagtt agtagaaaac agtctggatg ctggtgccac taatattgat cta
<210> 941
<211> 238
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (202)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (217)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (228)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 941

His Glu Cys Ala Cys Leu Pro Gly Tyr Ala Gly Asp Gly His Gln Cys
1 10 15

Thr Asp Val Asp Glu Cys Ser Glu Asn Arg Cys His Pro Ala Ala Thr
20 25 30

Cys Tyr Asn Thr Pro Gly Ser Phe Ser Cys Arg Cys Gln Pro Gly Tyr
35 40 45

Tyr Gly Asp Gly Phe Gln Cys Ile Pro Asp Ser Thr Ser Ser Leu Thr 50 55 60

Pro Cys Glu Gln Gln Arg His Ala Gln Ala Gln Tyr Ala Tyr Pro 65 70 75 80

Gly Ala Arg Phe His Ile Pro Gln Cys Asp Glu Gln Gly Asn Phe Leu 85 90 95

Pro Leu Gln Cys His Gly Ser Thr Gly Phe Cys Trp Cys Val Asp Pro 100 105 110

Asp Gly His Glu Val Pro Gly Thr Gln Thr Pro Pro Gly Ser Thr Pro 115 120 125

Pro His Cys Gly Pro Ser Pro Glu Pro Thr Gln Arg Pro Pro Thr Ile 130 135 140

Cys Glu Arg Trp Arg Glu Asn Leu Leu Glu His Tyr Gly Gly Thr Pro 145 150 155 160

Arg Asp Asp Gln Tyr Val Pro Gln Cys Asp Asp Leu Gly His Phe Ile 165 170 175

Pro Leu Gln Cys His Gly Lys Ser Asp Phe Cys Trp Cys Val Asp Lys
180 185 190

Asp Gly Arg Glu Val Gln Gly Thr Gly Xaa Pro Ala Arg His His Pro 195 200 205

Cys Val Tyr Thr His Arg Arg Ser Xaa His Gly Pro Ala His Ala Pro 210 215 220

Ala Arg Cys Xaa Pro Ser Ile Cys Gly Gln Leu Pro Gly Ala 225 230 235

<210> 942

<211> 341

<212> PRT

<213> Homo sapiens

<400> 942

Arg Thr Asn Leu Lys Glu Ala Ser Asp Ile Lys Leu Glu Pro Asn Thr 1 5 10 15

Leu Asn Gly Tyr Lys Ser Ser Val Thr Glu Pro Cys Pro Asp Ser Gly
20 25 30

Glu Gln Leu Gln Pro Ala Pro Val Leu Gln Glu Glu Glu Leu Ala His
35 40 45

Glu Thr Ala Gln Lys Gly Glu Ala Lys Cys His Lys Ser Asp Thr Gly 50 55 60

Met Ser Lys Lys Ser Arg Gln Gly Lys Leu Val Lys Gln Phe Ala 65 70 75 80

Lys Ile Glu Glu Ser Thr Pro Val His Asp Ser Pro Gly Lys Asp Asp 85 90 95

Ala Val Pro Asp Leu Met Gly Pro His Ser Asp Gln Gly Glu His Ser 100 105 110

Gly Thr Val Gly Val Pro Val Ser Tyr Thr Asp Cys Ala Pro Ser Pro 115 120 125

Val Gly Cys Ser Val Val Thr Ser Asp Ser Phe Arg Thr Lys Asp Ser 130 135 140

Phe Arg Thr Ala Lys Ser Lys Lys Lys Arg Arg Ile Thr Arg Tyr Asp 145 150 155 160

Ala Gln Leu Ile Leu Glu Asn Asn Ser Gly Ile Pro Lys Leu Thr Leu 165 170 175

Arg Arg Arg His Asp Ser Ser Ser Lys Thr Asn Asp Gln Glu Asn Asp 180 185 190

Gly Met Asn Ser Ser Lys Ile Ser Ile Lys Leu Ser Lys Asp His Asp 195 200 205

Asn Asp Asn Asn Leu Tyr Val Ala Lys Leu Asn Asn Gly Phe Asn Ser 210 215 220

Gly Ser Gly Ser Ser Ser Thr Lys Leu Lys Ile Gln Leu Lys Arg Asp 225 230 235 240

Glu Glu Asn Arg Gly Ser Tyr Thr Glu Gly Leu His Glu Asn Gly Val 245 250 255 Cys Cys Ser Asp Pro Leu Ser Leu Leu Glu Ser Arg Met Glu Val Asp 260 265 270

Asp Tyr Ser Gln Tyr Glu Glu Glu Ser Thr Asp Asp Ser Ser Ser Ser Ser 275 280 285

Glu Gly Asp Glu Glu Asp Asp Tyr Asp Asp Asp Phe Glu Asp Asp 290 295 300

Phe Ile Pro Leu Pro Pro Ala Lys Arg Leu Arg Leu Ile Val Gly Lys 305 310 315 320

Asp Ser Ile Asp Ile Ser Ser Arg Arg Glu Asp Gln Ser 325 330 335

Leu Arg Leu Asn Ala 340

<210> 943

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (187)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 943

Xaa Leu Leu Lys Val Trp Arg Ala Xaa Gln Val Ser Val Ala Tyr Asn 1 5 10 15

Ser Leu Asp Phe Glu Pro Glu Ile Phe Phe Ala Leu Gly Ser Pro Ile 20 25 30

Ala Met Phe Leu Thr Ile Arg Gly Val Asp Arg Ile Asp Glu Asn Tyr 35 40 45

Ser Leu Pro Thr Cys Lys Gly Phe Phe Asn Ile Tyr His Pro Leu Asp 50 55 60

Pro Val Ala Tyr Arg Leu Glu Pro Met Ile Val Pro Asp Leu Asp Leu 65 70 75 80

Lys Ala Val Leu Ile Pro His His Lys Gly Arg Lys Arg Leu His Leu 85 90 95

Glu Leu Lys Glu Ser Leu Ser Arg Met Gly Ser Asp Leu Lys Gln Gly
100 105 110

Phe Ile Ser Ser Leu Lys Ser Ala Trp Gln Thr Leu Asn Glu Phe Ala 115 120 125

Arg Ala His Thr Ser Ser Thr Gln Leu Gln Glu Glu Leu Glu Lys Val

Lys Val Val Glu Ser Pro Asp Phe Ser Lys Asp Glu Asp Tyr Leu Gly 165 170 175

Lys Val Gly Lys Val Lys Trp Arg Pro Pro Xaa Leu Thr Thr Phe Ser 180 185 190

Lys Lys Asn Gln 195

<210> 944

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 944

Pro His Gly Leu Arg Cys Pro Ser Cys Pro Gln Thr Ala Val Ser Arg

1 10 15

Arg Gln Ala Arg Arg Met Val Thr Glu Thr Ser Arg Arg Arg Ile
20 25 30

Gln Glu Leu Glu Glu Arg Arg Xaa Phe Val Glu Ala Cys Arg Ala
35 40 45

Arg Glu Ala Ala Phe Asp Ala Glu Tyr Gln Arg Asn Pro His Arg Val 50 55 60

Asp Leu Asp Ile Leu Thr Phe Thr Ile Ala Leu Thr Ala Ser Glu Val 65 70 75 80

Ile Asn Pro Leu Ile Glu Glu Leu Gly Cys Asp Lys Phe Ile Asn Arg 85 90 95

Glu

<210> 945

<211> 123

<212> PRT

<213> Homo sapiens

<400> 945

Ser Gly Ser Pro Gly Leu Gln Glu Phe Arg Ala Pro Gly Val Gln Gln 1 5 15

Asp Glu Arg Leu Ala Ser Pro Ile His Ser Thr Tyr Ile Pro Ile Pro 20 25 30

Thr Ser Ala Ile Cys Ala Thr Gly Ser Asn Gly Ser Ala Pro Thr Arg
35 40 45

Ile Ser Val Gln Cys Leu Ser Pro Ala Thr Thr Gly Ser Ala Ser Val 50 55 60

Asp Leu Cys Cys Thr Arg Asp Ile Ser Leu Leu Pro Gly Glu Pro Pro 65 70 75 80

Ile Ala Val Pro Thr Gly Val Phe Gly Pro Leu Pro Thr Gly Ser Val
85 90 95

Gly Leu Leu Phe Asp Leu Ser Ser Leu Asn Leu Lys Gly Val Gln Val 100 105 110

His Thr Gly Val Ile Asp Ser Asp Ile Gln Val

<210> 946

<211> 45

<212> PRT

<213> Homo sapiens

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<400> 946
Gly Phe Leu Gly Leu Leu Phe Met Pro Gln Ala Thr Tyr Pro Gly Glu
Ser Leu Pro Val Leu Leu His Glu Phe Leu Ser His Arg Met His Val
                                  25
Pro Leu His Phe Val Thr Ser Val Ser Pro Thr Arg Gln
         35
                              40
                                                   45
<210> 947
<211> 160
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (147)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 947

Gly Pro Arg Arg Gly Pro Gly Pro Gly Cys Ala Ala Pro Ala Thr
1 5 10 15

Glu Glu Glu Ala Ala Ser Ser Ser Ser Xaa Leu Xaa Glu Val Thr
20 25 30

Leu Gly Glu Val Pro Ala Ala Glu Ser Pro Asp Pro Pro Gln Ser Pro 35 40 45

Gln Gly Ala Ser Ser Leu Pro Xaa Thr Met Asn Tyr Pro Leu Trp Ser 50 55 60

Gln Ser Tyr Glu Asp Ser Ser Asn Gln Glu Glu Glu Gly Pro Ser Thr
65 70 75 80

Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Leu Ser Arg Lys Val 85 90 95

Ala Lys Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Xaa Glu Pro 100 105 110

Val Thr Lys Ala Glu Met Leu Gly Ser Val Val Gly Lys Leu Ala Ser 115 120 125

Thr Ser Phe Xaa Xaa Ile Phe Lys Gln Lys Leu Ser Asp Phe Leu Cys 130 135 140

Asn Leu Xaa Phe Trp His Ser Lys Leu Glu Trp Xaa Val Gly Pro Pro 145 150 155 160

<210> 948

<211> 53

<212> PRT

<213> Homo sapiens

<400> 948

Ser Asn Trp Ile Ile Asp Cys Asn Cys Leu Glu Ile Tyr His Lys Asn 1 5 10 15

Arg Leu Cys Phe Phe Gly Ile Ala Pro Asn Phe Ser Leu Leu Leu Arg 20 25 30

Ala Ala His Ala Val Leu Ser Ser Tyr Trp Ser Gln Pro Leu Gly Glu
35 40 45

Glu Arg Asn Ala Trp 50

<210> 949

<211> 154

<212> PRT

<213> Homo sapiens

<400> 949

Trp Asp Tyr Ile Leu Cys Ala Gly Leu Arg Glu His Glu Glu Gly Ala 1 5 10 15

Ile Cys His Thr Leu Glu Ala Glu Ala Cys Thr Ser Ala Ala Arg Leu 20 25 30

Thr Val Val Gly Gly Asp Gly Asn Cys Arg Ser Ala Arg Val Val
35 40 45

Glu Lys Leu Gln Gly Phe Ser Gly Phe Ala Cys Pro Ala Ala Pro 50 55 60

Cys Leu Ala Arg Gly Glu Gly Gly Ala Thr Cys Gly Thr Leu Glu Ala
65 70 75 80

Gly Ala Cys Arg Trp His Gly Ser Ala Ala His Leu Ala Ala Val Gly
85 90 95

Gly Gly Asp Arg Asp Cys Ser Leu Thr Val Val Asn Leu Glu Ile Ile
100 105 110

Cys Leu Glu Ala Leu Ser Leu Ser Trp Asp Leu Lys Arg Arg Gly Ser 115 120 125

Pro Asn Ser Gln Gln Ser Asn Ser Lys Trp Cys Cys Lys Leu Asn His 130 135 140

Thr Trp Thr Gly His Ser Ser Glu Asp Pro 145 150 <211> 442

<212> PRT

<213> Homo sapiens

<400> 950

Ala Arg Gly Thr Glu Thr Cys Gly Leu Ile Gln Val Thr Leu Leu Asp
1 5 10 15

Thr Val Glu Leu Ala Thr Tyr Thr Val Arg Thr Phe Ala Leu His Lys
20 25 30

Ser Gly Ser Ser Glu Lys Arg Glu Leu Arg Gln Phe Gln Phe Met Ala 35 40 45

Trp Pro Asp His Gly Val Pro Glu Tyr Pro Thr Pro Ile Leu Ala Phe 50 55 60

Leu Arg Arg Val Lys Ala Cys Asn Pro Leu Asp Ala Gly Pro Met Val 65 70 75 80

Val His Cys Ser Ala Gly Val Gly Arg Thr Gly Cys Phe Ile Val Ile 85 90 95

Asp Ala Met Leu Glu Arg Met Lys His Glu Lys Thr Val Asp Ile Tyr
100 105 110

Gly His Val Thr Cys Met Arg Ser Gln Arg Asn Tyr Met Val Gln Thr 115 120 125

Glu Asp Gln Tyr Val Phe Ile His Glu Ala Leu Leu Glu Ala Ala Thr 130 135 140

Cys Gly His Thr Glu Val Pro Ala Arg Asn Leu Tyr Ala His Ile Gln 145 150 155 160

Lys Leu Gly Gln Val Pro Pro Gly Glu Ser Val Thr Ala Met Glu Leu 165 170 175

Glu Phe Lys Leu Leu Ala Ser Ser Lys Ala His Thr Ser Arg Phe Ile 180 185 190

Ser Ala Asn Leu Pro Cys Asn Lys Phe Lys Asn Arg Leu Val Asn Ile 195 200 205

Met Pro Tyr Glu Leu Thr Arg Val Cys Leu Gln Pro Ile Arg Gly Val 210 215 220

Glu Gly Ser Asp Tyr Ile Asn Ala Ser Phe Leu Asp Gly Tyr Arg Gln 225 230 235 240

Gln Lys Ala Tyr Ile Ala Thr Gln Gly Pro Leu Ala Glu Ser Thr Glu

245 250 255

Asp Phe Trp Arg Met Leu Trp Glu His Asn Ser Thr Ile Ile Val Met 260 265 270

Leu Thr Lys Leu Arg Glu Met Gly Arg Glu Lys Cys His Gln Tyr Trp
275 280 285

Pro Ala Glu Arg Ser Ala Arg Tyr Gln Tyr Phe Val Val Asp Pro Met 290 295 300

Ala Glu Tyr Asn Met Pro Gln Tyr Ile Leu Arg Glu Phe Lys Val Thr 305 310 315 320

Asp Ala Arg Asp Gly Gln Ser Arg Thr Ile Arg Gln Phe Gln Phe Thr 325 330 335

Asp Trp Pro Glu Gln Gly Val Pro Lys Thr Gly Glu Gly Phe Ile Asp 340 345 350

Phe Ile Gly Gln Val His Lys Thr Lys Glu Gln Phe Gly Gln Asp Gly 355 360 365

Pro Ile Thr Val His Cys Ser Ala Gly Val Gly Arg Thr Gly Val Phe 370 375 380

Ile Thr Leu Ser Ile Val Leu Glu Arg Met Arg Tyr Glu Gly Val Val 385 390 395 400

Asp Met Phe Gln Thr Val Lys Thr Leu Arg Thr Gln Arg Pro Ala Met 405 410 415

Val Gln Thr Glu Asp Gln Tyr Gln Leu Cys Tyr Arg Ala Ala Leu Glu 420 425 430

Tyr Leu Gly Ser Phe Asp His Tyr Ala Thr 435 440

<210> 951

<211> 82

<212> PRT

<213> Homo sapiens

<400> 951

Asn Ser Lys Val Gly Ile Ser Arg Asn Cys Val Gln Met His Pro Val 1 5 10 15

Val Ala Leu Gln Glu Val Cys Leu Met Lys Leu Gly Lys His Phe Ala 20 25 30 Ile Phe Pro Leu Ala Val Phe Leu Cys Ser Leu Leu Pro Leu Phe Phe 35 40 45

Pro Trp Phe Val Ile Ile Arg Arg Glu Val Leu Gln Arg Leu Val Ala
50 55 60

Val Lys Glu Ser Phe Phe Asn Phe Tyr Pro Arg Val Ser His Phe Tyr 65 70 75 80

Ser Arg

<210> 952

<211> 475

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (465)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (468)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (469)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 952

Leu Val Leu Pro Leu His Ala Val Glu Lys Thr Gly Arg Pro Gly Gln
1 5 10 15

Pro Ala Leu Lys Met Pro Gly Lys Leu Arg Ser Asp Ala Gly Leu Glu 20 25 30

Ser Asp Thr Ala Met Lys Lys Gly Glu Thr Leu Arg Lys Gln Thr Glu 35 40 45

Glu Lys Glu Lys Glu Lys Pro Lys Ser Asp Lys Thr Glu Glu Ile
50 55 60

Ala Glu Glu Glu Glu Thr Val Phe Pro Lys Ala Lys Gln Val Lys 65 70 75 80

Lys	Ala	Glu	Pro	Ser 85		Val	. Asp	Met	90		Pro	Lys	Ser	Lys 95	Lys
Ala	Lys	Lys	Lys 100		Glu	Pro	Ser	Gln 105		Asp	Ile	Ser	Pro 110	Lys	Thr
Lys	Ser	Leu 115		Lys	Lys	Lys	Glu 120		Ile	Glu	Lys	Lys 125		Val	Ser
Ser	Lys 130	Thr	Lys	Lys	Val	Thr 135		Asn	Glu	Glu	Pro 140	Ser	Glu	Glu	Glu
Ile 145		Ala	Pro	Lys	Pro 150		Lys	Met	Lys	Lys 155	Glu	Lys	Glu	Met	Asn 160
Gly	Glu	Thr	Arg	Glu 165	Lys	Ser	Pro	Lys	Leu 170	Lys	Asn	Gly	Phe	Pro 175	His
Pro	Glu	Pro	Asp 180	Cys	Asn	Pro	Ser	Glu 185	Ala	Ala	Ser	Glu	Glu 190	Ser	Asn
Ser	Glu	11e 195		Gln	Glu	Ile	Pro 200	Val	Glu	Gln	Lys	Glu 205	Gly	Ala	Phe
Ser	Asn 210	Phe	Pro	Ile	Ser	Glu 215	Glu	Thr	Ile	Lys	Leu 220	Leu	Lys	Gly	Arg
Gly 225	Val	Thr	Phe	Leu	Phe 230	Pro	Ile	Gln	Ala	Lys 235	Thr	Phe	His	His	Val 240
Tyr	Ser	Gly	Lys	Asp 245	Leu	Ile	Ala	Gln	Ala 250	Arg	Thr	Gly	Thr	Gly 255	Lys
Thr	Phe	Ser	Phe 260	Ala	Ile	Pro	Leu	Ile 265	Glu	Lys	Leu	His	Gly 270	Glu	Leu
Gln	Asp	Arg 275	Lys	Arg	Gly	Arg	Ala 280	Pro	Gln	Val	Leu	Val 285	Leu	Ala	Pro
Thr	Arg 290	Glu	Leu	Ala	Asn	Gln 295	Val	Ser	Lys	Asp	Phe 300	Ser	Asp	Ile	Thr
Lys 305	Lys	Leu	Ser	Val	Ala 310	Cys	Phe	Tyr	Gly	Gly 315	Thr	Pro	Tyr	Gly	Gly 320
Gln	Phe	Glu	Arg	Met 325	Arg	Asn	Gly	Ile	Asp 330	Ile	Leu	Val	Gly	Thr 335	Pro
Gly	Arg	Ile	Lys 340	Asp	His	Ile	Gln	Asn 345	Gly	Lys	Leu	Asp	Leu 350	Thr	Lys

Leu Lys His Val Val Leu Asp Glu Val Asp Gln Met Leu Asp Met Gly 355 360 365

Phe Ala Asp Gln Val Glu Glu Ile Leu Ser Val Ala Tyr Lys Lys Asp 370 375 380

Ser Glu Asp Asn Pro Gln Thr Leu Leu Phe Ser Ala Thr Cys Pro His 385 390 395 400

Trp Val Phe Asn Val Ala Lys Lys Tyr Met Lys Ser Thr Tyr Glu Gln
405 410 415

Val Asp Leu Ile Gly Lys Lys Thr Gln Lys Thr Ala Ile Thr Val Glu
420 425 430

His Leu Ala Ile Lys Cys His Trp Thr Gln Arg Ala Ala Val Ile Gly
435
440
445

Asp Val Ile Arg Val Tyr Ser Gly His Gln Gly Arg Thr Ile Ile Phe 450 455 460

Xaa Glu Thr Xaa Xaa Glu Ala Gln Glu Leu Ser 465 470 475

<210> 953

<211> 259

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 953

His Glu Ala Lys Trp Ala Arg Glu Glu Glu Glu Ala Gln Arg Arg Leu
1 5 10 15

Glu Glu Asn Arg Leu Arg Met Glu Glu Glu Ala Ala Arg Leu Arg His
20 25 30

Glu Glu Glu Arg Lys Arg Lys Ala Leu Glu Val Gln Arg Gln Lys
35 40 45

Glu Leu Met Arg Gln Arg Gln Gln Gln Gln Glu Ala Leu Arg Arg Leu 50 55 60

Gln Gln Gln Gln Gln Gln Gln Leu Ala Gln Met Lys Leu Pro Ser 65 70 75 80 Ser Ser Thr Trp Gly Gln Gln Ser Asn Thr Thr Ala Cys Gln Ser Gln 85 90 95

Ala Thr Leu Ser Leu Ala Glu Ile Gln Lys Leu Glu Glu Glu Arg Glu
100 105 110

Arg Gln Xaa Arg Glu Glu Gln Arg Arg Gln Gln Arg Glu Leu Met Lys 115 120 125

Ala Leu Gln Gln Gln Gln Gln Gln Gln Gln Lys Leu Ser Gly Trp 130 135 140

Gly Asn Val Ser Lys Pro Ser Gly Thr Thr Lys Ser Leu Leu Glu Ile 145 150 155 160

Gln Gln Glu Glu Ala Arg Gln Met Gln Lys Gln Gln Gln Gln Gln 165 170 175

Gln His Gln Gln Pro Asn Arg Ala Arg Asn Asn Thr His Ser Asn Leu 180 185 190

His Thr Ser Ile Gly Asn Ser Val Trp Gly Ser Ile Asn Thr Gly Pro 195 200 205

Pro Asn Gln Trp Ala Ser Asp Leu Val Ser Ser Ile Trp Ser Asn Ala 210 215 220

Asp Thr Lys Asn Ser Asn Met Gly Phe Trp Asp Asp Ala Val Lys Glu 225 230 235 240

Val Gly Pro Arg Asn Ser Thr Asn Lys Asn Lys Asn Asn Ala Ile Ser 245 250 255

Val Asn Leu

<210> 954

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<222> (17)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 954

Ile Val Tyr Val Pro Ser His Leu His His Met Xaa Phe Glu Leu Phe 1 5 10 15

Xaa Asn Ala Met Arg Ala Thr Val Glu His Gln Glu Asn Gln Pro Xaa 20 25 30

Leu Thr Pro Ile Glu Val Ile Val Ala Leu Gly Lys Glu Asp Leu Thr 35 40 45

Ile Lys Ile Ser Asp Arg Gly Gly Gly Val Pro Leu Arg Ile Ile Asp 50 . 55 60

Arg Leu Phe Ser Tyr Thr Tyr Ser Thr Ala Pro Thr Pro Val Met Asp 65 70 75 80

Asn Ser Arg Asn Ala Pro Leu Ala Gly Phe Gly Tyr Gly Leu Pro Ile 85 90 95

Ser Arg Leu Tyr Ala Lys Tyr Phe Gln Gly Xaa Leu Asn Leu Tyr Ser 100 105 110

Leu Xaa Gly Tyr Gly Thr Asp Ala Ile Ile Tyr Leu Lys Ala Leu Val

115 120 125

Thr Xaa Cys Gln Phe Leu Val Cys Met Gln Ser Thr Phe Lys Glu Xaa 130 135 140

<210> 955

<211> 243

<212> PRT

<213> Homo sapiens

<400> 955

Thr Arg Pro Arg Thr Arg Gly Leu Trp Arg Pro Gly Trp Arg Cys Val
1 5 10 15

Pro Phe Cys Gly Trp Arg Trp Ile His Pro Gly Ser Pro Thr Arg Ala 20 25 30

Ala Glu Arg Val Glu Pro Phe Leu Arg Pro Glu Trp Ser Gly Thr Gly
35 40 45

Gly Ala Glu Arg Gly Leu Arg Trp Leu Gly Thr Trp Lys Arg Cys Ser 50 55 60

Leu Arg Ala Arg His Pro Ala Leu Gln Pro Pro Arg Arg Pro Lys Ser
65 70 75 80

Ser Asn Pro Phe Thr Arg Ala Gln Glu Glu Glu Arg Arg Arg Gln Asn 85 90 95

Lys Thr Thr Leu Thr Tyr Val Ala Ala Val Ala Val Gly Met Leu Gly
100 105 110

Ala Ser Tyr Ala Ala Val Pro Leu Tyr Arg Leu Tyr Cys Gln Thr Thr 115 120 125

Gly Leu Gly Gly Ser Ala Val Ala Gly His Ala Ser Asp Lys Ile Glu 130 135 140

Asn Met Val Pro Val Lys Asp Arg Ile Ile Lys Ile Ser Phe Asn Ala 145 150 155 160

Asp Val His Ala Ser Leu Gln Trp Asn Phe Arg Pro Gln Gln Thr Glu 165 170 175

Ile Tyr Val Val Pro Gly Glu Thr Ala Leu Ala Phe Tyr Arg Ala Lys
180 185 190

Asn Pro Thr Asp Lys Pro Val Ile Gly Ile Ser Thr Tyr Asn Ile Val 195 200 205

Pro Phe Glu Ala Gly Gln Tyr Phe Asn Lys Ile Gln Cys Phe Cys Phe 210 215 220

Glu Glu Gln Arg Leu Asn Pro Gln Glu Glu Val Gly Tyr Ala Ser Val 225 230 235 240

Phe Leu His

<210> 956

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 956

Gly Leu Val Val Thr Leu Leu Thr His Xaa Phe Xaa Ile Asn Ser Xaa 1 5 10 15

Asn Phe Cys Thr Ser Ala Lys Asp Ala Phe Val Ile Leu Val Glu Asn 20 25 30

Ala Leu Arg Val Ala Thr Ile Asn Thr Val Gly Asp Phe Met Leu Phe 35 40 45

Leu Gly Lys Val Leu Ile Val Cys Ser Thr Gly Leu Ala Gly Ile Met 50 55 60

Leu Leu Asn Tyr Gln Gln Asp Tyr Thr Val Trp Val Leu Pro Leu Ile
65 70 75 80

Ile Val Cys Leu Phe Ala Phe Leu Val Ala His Cys Phe Leu Ser Ile 85 90 95

Tyr Glu Met. Val Val Asp Val Leu Phe Leu Cys Phe Ala Ile Asp Thr 100 105 110

Lys Tyr Asn Asp Gly Ser Pro Gly Arg Glu Phe Tyr Met Asp Lys Val 115 120 125

Leu Met Glu Phe Val Glu Asn Ser Arg Lys Ala Met Lys Glu Ala Gly
130 135 140

Lys Gly Gly Val Ala Asp Ser Arg Glu Leu Asn Arg Cys Phe Gly Ser 145 150 155 160

Lys Phe Cys Leu Asn Leu Ala Asp Gly Tyr Gly Asn Pro Leu Thr Phe 165 170 175

Gln Asn Asn Ile Tyr Thr His Thr 180

<210> 957

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 957

Ser Arg Ser Pro Val Leu Asp Pro Ser Glu Pro Gln Pro Leu Ala Ala 1 5 10 15

Met His Val Ile Lys Arg Asp Gly Arg Gln Glu Arg Val Met Phe Asp 20 25 30

Lys Ile Thr Ser Arg Ile Gln Lys Leu Cys Tyr Gly Leu Asn Met Asp 35 40 45

Phe Val Asp Pro Ala Gln Ile Thr Met Lys Val Ile Gln Gly Leu Tyr
50 55 60

Ser Gly Val Thr Thr Val Glu Leu Asp Thr Leu Ala Ala Glu Thr Ala 65 70 75 80

Ala Thr Leu Thr Thr Lys His Pro Asp Tyr Ala Ile Leu Ala Ala Arg 85 90 95

```
Ile Ala Val Ser Asn Leu His Lys Glu Thr Lys Lys Val Phe Ser Asp
100 105 110
```

Val Met Glu Asp Leu Tyr Xaa Leu His Lys Ser Thr 115 120

<210> 958

<211> 117

<212> PRT

<213> Homo sapiens

<400> 958

Ser Ile Met Phe Val Ala Leu Met Lys Tyr Phe Gln Glu Met Cys Pro 1 5 10 15

Gly Val Ala Leu Ala Met Leu Thr Arg Pro Leu Val Thr Gln Arg Ala
20 25 30

Leu Gly Pro Asp Gly Asp Leu Pro Leu Arg Phe Leu Tyr Gln Ala Leu
35 40 45

Ser Ser His Gly Ala Ser Gly Thr Ser Leu Leu Ser Trp Glu Lys Gly 50 55 60

Asn Trp Leu Pro Arg Gln Val Val Glu Ser Val Ala Gly Thr Arg Leu 65 70 75 80

Glu Ala His Leu Val Val Asn Arg Ala Gln Trp Gly Arg Leu Gly Met
85 90 95

Leu Trp Ser Met Gly Leu Phe Pro Gly Glu Cys Ser Gly Met Ser Ser 100 105 110

Gln Leu Leu Trp Cys 115

<210> 959

<211> 267

<212> PRT

<213> Homo sapiens

<400> 959

Ser Met Pro Gly Trp Arg Leu Leu Thr Gln Val Gly Ala Gln Val Leu
1 5 10 15

Gly Arg Leu Gly Asp Gly Leu Gly Ala Ala Leu Gly Pro Gly Asn Arg

20 25 30

Thr His Ile Trp Leu Phe Val Arg Gly Leu His Gly Lys Ser Gly Thr 35 40 45

Trp Trp Asp Glu His Leu Ser Glu Glu Asn Val Pro Phe Ile Lys Gln 50 55 60

Leu Val Ser Asp Glu Asp Lys Ala Gln Leu Ala Ser Lys Leu Cys Pro 65 70 75 80

Leu Lys Asp Glu Pro Trp Pro Ile His Pro Trp Glu Pro Gly Ser Phe 85 90 95

Arg Val Gly Leu Ile Ala Leu Lys Leu Gly Met Met Pro Leu Trp Thr
100 105 110

Lys Asp Gly Gln Lys His Val Val Thr Leu Leu Gln Val Gln Asp Cys 115 120 125

His Val Leu Lys Tyr Thr Ser Lys Glu Asn Cys Asn Gly Lys Met Ala 130 135 140

Thr Leu Ser Val Gly Gly Lys Thr Val Ser Arg Phe Arg Lys Ala Thr 145 150 155 160

Ser Ile Leu Glu Phe Tyr Arg Glu Leu Gly Leu Pro Pro Lys Gln Thr 165 170 175

Val Lys Ile Phe Asn Ile Thr Asp Asn Ala Ala Ile Lys Pro Gly Thr
180 185 190

Pro Leu Tyr Ala Ala His Phe Arg Pro Gly Gln Tyr Val Asp Val Thr 195 200 205

Ala Lys Thr Ile Gly Lys Gly Phe Gln Gly Val Met Lys Arg Trp Gly 210 215 220

Phe Lys Gly Gln Pro Ala Thr His Gly Gln Thr Lys Thr His Arg Arg 225 230 235 240

Pro Gly Ala Val Ala Thr Gly Asp Ile Gly Arg Val Trp Pro Gly Thr
245 250 255

Lys Met Pro Gly Lys Met Gly Lys Cys Gly Glu 260 265 <212> PRT

<213> Homo sapiens

<400> 960

Pro Arg Val Arg Ala Arg Trp Arg Arg Gly His Phe His Cys Pro 1 5 10 15

Ser Glu Gly Thr Leu Ser Ser Val Ser Gly Ala Val Phe Gln Leu Arg
20 25 30

Val Val Pro Arg Glu Ser Glu Arg Pro Ser Pro Gly Trp Cys Asp Gly
35 40 45

Arg Gly Gly Gln Ala Gly Arg Ala Ala Val His Gln Arg Gly Gly 50 55 60

Arg Ala Gly Gln Arg Arg Pro Gly Leu Leu Pro Asp Leu Gly Val 65 70 75 80

Ser Ala Val Gly Gly His Gly Arg His Pro Arg Pro His Arg Pro Leu 85 90 95

Arg Leu His Leu Leu Pro Ala Arg Leu Arg Pro Ala Leu Pro Ala Pro 100 105 110

His Ser Gln Gly Gly Lys Glu Val Glu Gln Ile Phe Gln Ile Thr Glu 115 120 125

Thr Ser Leu Tyr Arg Arg Pro His Arg Gly Pro Leu His Leu Arg Pro 130 135 140

Val Leu Asp Val Pro Leu Arg His Gly Ala Arg Leu Leu Lys Trp Gly
145 150 155 160

Pro Gly Gly Leu Phe 165

<210> 961

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 961

Thr Ala Thr Thr Glu Val Glu Val Leu Asp Met Xaa Val Leu Pro Leu

1 5 10 15

Val Tyr Ile Leu Met Asn Ile Asp Val Asn Lys Lys Gly Lys Lys Gln 20 25 30

Asn Thr Arg Phe Pro Ile Leu Met Leu Ala Pro Ser Lys Ser Leu
35 40 45

Pro Thr Arg Met Asn Thr Phe Pro Lys Leu Asn Lys Phe Leu Phe Ile 50 55 60

Lys Leu Arg Leu Lys Phe Val Gly Leu Gly Ser Phe Leu Lys Pro Arg 65 70 75 80

Ala Cys Pro Leu Pro Thr Pro Pro Ser Phe Ala Pro Lys 85 90

<210> 962

<211> 173

<212> PRT

<213> Homo sapiens

<400> 962

Glu Pro Lys Ala Lys Pro His Arg Ser Arg Gly Ser Gly Thr Arg Ala 1 5 10 15

Val Arg Arg Ser Cys Leu Gln Ser Ala Ala Glu Ala Ala His Gly
20 25 30

Pro Asp Thr Pro Ala Ala Arg Ala Leu Gln Ser Leu Gly His Pro Val
35 40 45

Val Gly Asp Leu Thr Tyr Gly Glu Val Ser Gly Arg Glu Asp Arg Pro 50 55 60

Phe Arg Met Met Leu His Ala Phe Tyr Leu Arg Ile Pro Thr Asp Thr 65 70 75 80

Glu Cys Val Glu Val Cys Thr Pro Asp Pro Phe Leu Pro Ser Leu Asp
85 90 95

Ala Cys Trp Ser Pro His Thr Leu Leu Gln Ser Leu Asp Gln Leu Val

Gln Ala Leu Arg Ala Thr Pro Asp Pro Asp Pro Glu Asp Arg Gly Pro
115 120 125

Arg Pro Gly Ser Pro Ser Ala Leu Leu Pro Gly Pro Gly Arg Pro Pro 130 135 140 Pro Pro Pro Thr Lys Pro Pro Glu Thr Glu Ala Gln Arg Gly Pro Cys 145 150 155 160

Leu Gln Trp Leu Ser Glu Trp Thr Leu Glu Pro Asp Ser 165 170

<210> 963

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 963

Ser Ser Arg Gly Glu Pro Arg Ala Ala Leu Leu Cys Lys Arg Ser Asp 1 5 10 15

Val Leu Leu Glu Pro Phe Arg Arg Gly Val Met Glu Lys Leu Gln Leu 20 25 30

Gly Pro Glu Ile Leu Gln Arg Glu Asn Pro Arg Leu Ile Tyr Xaa Xaa 35 40 45

Leu Ser Gly Phe Gly Gln Ser Gly Lys Leu Leu Pro Val Ser Trp Pro 50 55 60

Arg Tyr Gln Leu Phe Gly Phe Cys Ser Gly Gly Arg Xaa Gln His Ile
65 70 75 80

<211> 89

<212> PRT

<213> Homo sapiens

<400> 964

Ala Glu Ala Leu Gly Ser Pro Cys Phe Pro Gln Asp Leu Leu Leu Ala 1 5 10 15

Asn Arg Ser Ser Arg Gln Leu Leu Gln Cys Val Ser His Pro Ala Asn 20 25 30

Arg Ser Val Cys Ile Ser Val Lys Glu Asn Ser Leu Val Pro Pro Gly
35 40 45

Ser Ala Trp Lys Leu Asp Ala Asn Phe Tyr Ile Ala Trp Gln Thr Asp 50 55 60

Gln Gln Cys Gln Ala Leu Ile Cys Ile Leu His Tyr Pro Phe Thr Trp 65 70 75 80

Phe Leu Ala Leu Asn Gly Leu Gln Pro 85

<210> 965

<211> 323

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (218)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 965

Gly Arg Ala Ser Glu Arg Ala Ser Arg Gln Gln Ala Ala Gly Gly Arg
1 5 10 15

Ala Asp Gly Thr Glu Gly Gly Ser Glu Arg Ala Val Ser Lys Pro Ala 20 25 30

Arg Ala Val Gly Ser Arg Gly Gln Pro Arg Phe Leu Arg Ser Leu Arg 35 40 45

Pro Pro Pro Trp Ser Pro Gln Arg Leu Arg Cys Pro Glu Asp Arg Thr 50 55 60

Arg Pro Gly Pro Ala Met Ala Ser Leu Leu Lys Val Asp Gln Glu Val 65 70 75 80 Lys Leu Lys Val Asp Ser Phe Arg Glu Arg Ile Thr Ser Glu Ala Glu 85 90 95

Asp Leu Val Ala Asn Phe Phe Pro Lys Lys Leu Leu Glu Leu Asp Ser

Phe Leu Lys Glu Pro Ile Leu Asn Ile His Asp Leu Thr Gln Ile His
115 120 125

Ser Asp Met Asn Leu Pro Val Pro Asp Pro Ile Leu Leu Thr Asn Ser 130 135 140

His Asp Gly Leu Asp Gly Pro Thr Tyr Lys Lys Arg Arg Leu Asp Glu 145 150 155 160

Cys Glu Glu Ala Phe Gln Gly Thr Lys Val Phe Val Met Pro Asn Gly
165 170 175

Met Leu Lys Ser Asn Gln Gln Leu Val Asp Ile Ile Glu Lys Val Lys 180 185 190

Pro Glu Ile Arg Leu Leu Ile Glu Lys Cys Asn Thr Val Lys Met Trp 195 200 205

Val Gln Leu Leu Ile Pro Arg Ile Glu Xaa Gly Asn Asn Phe Gly Val 210 215 220

Ser Ile Gln Glu Glu Thr Val Ala Glu Leu Arg Thr Val Glu Ser Glu 225 230 235 240

Ala Ala Ser Tyr Leu Asp Gln Ile Ser Arg Tyr Tyr Ile Thr Arg Ala 245 250 255

Lys Leu Val Ser Lys Ile Ala Lys Tyr Pro His Val Glu Asp Tyr Arg
260 265 270

Arg Thr Val Thr Glu Ile Asp Glu Lys Glu Tyr Ile Ser Leu Arg Leu 275 280 285

Ile Ile Ser Glu Leu Arg Asn Gln Tyr Val Thr Leu His Asp Met Ile 290 295 300

Leu Lys Asn Ile Glu Lys Ile Lys Arg Pro Arg Ser Ser Asn Ala Glu 305 310 315 320

Thr Leu Tyr

<211> 314 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (39) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (300) <223> Xaa equals any of the naturally occurring L-amino acids <400> 966 Val Ser Pro Gln Lys Ala Ala Ser Leu Val Arg Ile Arg Trp Arg His Val Arg Pro Ser Pro Pro Ser Ala Ser Arg Leu Arg Arg Leu Pro Pro 20 25 Arg His Leu Thr Val Ala Xaa Arg Pro Arg Arg Glu Gly Val Gly Thr 35 40 45 Gly Ser Arg Ala Val Leu Cys Ile Leu Ala Thr Cys Gly Ser Lys Met 55 Ser Asp Ile Gly Asp Trp Phe Arg Ser Ile Pro Ala Ile Thr Arg Tyr 65 70 75 Trp Phe Ala Ala Thr Val Ala Val Pro Leu Val Gly Lys Leu Gly Leu 85 Ile Ser Pro Ala Tyr Leu Phe Leu Trp Pro Glu Ala Phe Leu Tyr Arg 105 Phe Gln Ile Trp Arg Pro Ile Thr Ala Thr Phe Tyr Phe Pro Val Gly 115 120 Pro Gly Thr Gly Phe Leu Tyr Leu Val Asn Leu Tyr Phe Leu Tyr Gln 130 135 Tyr Ser Thr Arg Leu Glu Thr Gly Ala Phe Asp Gly Arg Pro Ala Asp 145 150 160 Tyr Leu Phe Met Leu Leu Phe Asn Trp Ile Cys Ile Val Ile Thr Gly

170

190

Leu Ala Met Asp Met Gln Leu Leu Met Ile Pro Leu Ile Met Ser Val

185

165

Leu Tyr Val Trp Ala Gln Leu Asn Arg Asp Met Ile Val Ser Phe Trp 195 200 205

Phe Gly Thr Arg Phe Lys Ala Cys Tyr Leu Pro Trp Val Ile Leu Gly
210 215 220

Phe Asn Tyr Ile Ile Gly Gly Ser Val Ile Asn Glu Leu Ile Gly Asn 225 230 235 240

Leu Val Gly His Leu Tyr Phe Phe Leu Met Phe Arg Tyr Pro Met Asp 245 250 255

Leu Gly Gly Arg Asn Phe Leu Ser Thr Pro Gln Phe Leu Tyr Arg Trp 260 265 270

Leu Pro Ser Arg Arg Gly Gly Val Ser Gly Phe Gly Val Pro Pro Ala 275 280 285

Ser Met Arg Arg Ala Ala Asp Gln Asn Gly Gly Xaa Gly Arg His Asn 290 295 300

Trp Gly Gln Gly Phe Arg Leu Gly Asp Gln 305 310

<210> 967

<211> 181

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 967

Thr Ser Ser Asp Thr Leu Thr Val Leu Ser Arg Ala Arg Leu Gly Ser 1 5 10 15

Leu Leu Trp Gln Asn Leu Gly Ser Gln Glu Val Leu Val Pro Gly Asn 20 25 30

Ser Cys Phe Ser Gly Ala Gly Leu Tyr Ser Leu Gln Pro Leu Ala Leu 35 40 45

Pro Ser Trp Asn Gln Gly Gln Arg Leu Ser Pro Thr Leu Val Ser Ile 50 55 60

Phe Gln Lys Thr Gly Asn Ala Val Arg Ala Ile Gly Arg Leu Ser Ser 65 70 75 80

Met Ala Met Ile Ser Gly Leu Ser Gly Arg Lys Ser Ser Thr Gly Ser 85 90 95

Pro Thr Ser Pro Leu Asn Ala Glu Lys Leu Glu Ser Glu Glu Asp Val 100 105 110

Ser Gln Ala Phe Leu Glu Ala Val Ala Glu Glu Lys Pro His Val Lys 115 120 125

Pro Tyr Phe Ser Lys Thr Ile Arg Asp Leu Glu Val Val Glu Gly Ser 130 135 140

Ala Ala Arg Phe Asp Cys Lys Ile Glu Gly Tyr Pro Asp Pro Glu Val 145 150 155 160

Val Trp Xaa Gln Arg Trp Thr Ser Ser Ile Arg Glu Ser Arg Xaa Phe 165 170 175

Pro Asp Arg Leu Arg 180

<210> 968

<211> 291

<212> PRT

<213> Homo sapiens

<400> 968

His Gly Ala Gly Glu Ser Glu Pro Ser Ser Arg Val Pro Arg Arg Ala
1 5 10 15

Ala Ser Pro Gly His Val Pro Arg Leu Arg Gly Thr Arg Pro Glu Leu 20 25 30

Arg Glu Arg Arg Val Arg Arg Pro Arg Ala Pro Pro Ala Ala Ala 35 40 45

Gln Ala Ala Gln Gln Lys Phe His Leu Val Pro Ser Ile Asn Thr Met 50 55 60

Ser Gly Ser Gln Glu Leu Gln Trp Met Val Gln Pro His Phe Leu Gly 65 70 75 80

Pro Ser Ser Tyr Pro Arg Pro Leu Thr Tyr Pro Gln Tyr Ser Pro Pro

90 95

Gln Pro Arg Pro Gly Val Ile Arg Ala Leu Gly Pro Pro Pro Gly Val 100 105 110

Arg Arg Pro Cys Glu Gln Ile Ser Pro Glu Glu Glu Glu Arg Arg 115 120 125

Arg Val Arg Arg Glu Arg Asn Lys Leu Ala Ala Ala Lys Cys Arg Asn 130 135 140

Arg Arg Lys Glu Leu Thr Asp Phe Leu Gln Ala Glu Thr Asp Lys Leu 145 150 155 160

Glu Asp Glu Lys Ser Gly Leu Gln Arg Glu Ile Glu Glu Leu Gln Lys 165 170 175

Gln Lys Glu Arg Leu Glu Leu Val Leu Glu Ala His Arg Pro Ile Cys 180 185 190

Lys Ile Pro Glu Gly Ala Lys Glu Gly Asp Thr Gly Ser Thr Ser Gly
195 200 205

Thr Ser Ser Pro Pro Ala Pro Cys Arg Pro Val Pro Cys Ile Ser Leu 210 215 220

Ser Pro Gly Pro Val Leu Glu Pro Glu Ala Leu His Thr Pro Thr Leu 225 230 235 240

Met Thr Thr Pro Ser Leu Thr Pro Phe Thr Pro Ser Leu Val Phe Thr 245 250 255

Tyr Pro Ser Thr Pro Glu Pro Cys Ala Ser Ala His Arg Lys Ser Ser 260 265 270

Ser Ser Ser Gly Asp Pro Ser Ser Asp Pro Leu Gly Ser Pro Thr Leu 275 280 285

Leu Ala Leu 290

<210> 969

<211> 313

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

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<223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (62)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (121)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (137)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
<221> SITE
<222> (312)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (313)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 969
Glu Glu Glu Lys Lys Asp Ser Gly Val Ala Ser Thr Glu Asp Ser Ser
                  5
                                                          15
Ser Ser His Ile Thr Ala Ala Ala Ile Ala Ala Lys Lys His Pro Phe
             20
                                  25
                                                      30
Tyr Thr Xaa Pro Ala Val Val Met Ala His Gly Glu Gln Pro Ile Pro
         35
                              40
                                                  45
Gly Leu Ile Asn Tyr Ser His His Ser Thr Asp Glu Arg Xaa Pro Asp
                         55
Ser Ile Ile Ser Arg Gly Val Gln Val Leu Pro Arg Asp Thr Ala Ser
                     70
                                          75
Leu Ser Thr Thr Pro Ser Glu Ser Pro Arg Ala Gln Ala Thr Ser Arg
                 85
                                     90
Leu Ser Thr Ala Ser Cys Pro Thr Pro Lys Val Gln Ser Arg Cys Ser
            100
                                105
Ser Lys Glu Asn Ile Leu Arg Ala Xaa His Ser Ala Val Asp Ile Thr
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120

125

Lys Val Ala Arg Arg His Arg Met Xaa Pro Phe Pro Leu Thr Ser Met 130 135 140

Asp Lys Ala Phe Ile Thr Val Leu Glu Met Thr Pro Val Leu Gly Thr 145 150 155 160

Glu Ile Ile Asn Tyr Arg Asp Gly Met Gly Arg Val Leu Ala Gln Asp 165 170 175

Val Tyr Ala Lys Asp Asn Leu Pro Pro Phe Pro Ala Ser Val Lys Asp 180 185 190

Gly Tyr Ala Val Arg Ala Ala Asp Gly Pro Gly Asp Arg Phe Ile Ile 195 200 205

Gly Glu Ser Gln Ala Gly Glu Gln Pro Thr Gln Thr Val Met Pro Gly 210 215 220

Gln Val Met Arg Val Thr Thr Gly Ala Pro Ile Pro Cys Gly Ala Asp 225 230 235 240

Ala Val Val Gln Val Glu Asp Thr Glu Leu Ile Arg Glu Ser Asp Asp 245 250 255

Gly Thr Glu Glu Leu Glu Val Arg Ile Leu Val Gln Ala Arg Pro Gly 260 265 270

Gln Asp Ile Arg Pro Ile Gly His Asp Ile Lys Arg Gly Glu Cys Val 275 280 285

Leu Ala Lys Gly Thr His Met Gly Pro Ser Glu Ile Gly Leu Leu Ala 290 295 300

Thr Val Gly Val Thr Glu Val Xaa Xaa 305 310

<210> 970

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 970

His Met Lys Lys Gln Leu Leu Val Pro Asp Tyr Gly His Phe His Val

1 5 10 15

Xaa Glu Phe Leu Lys Leu Ser Leu Leu Arg Met Val Leu Leu Pro Ala 20 25 30

Asp Ser Tyr Leu Phe Val Phe Ser Ser Phe 35 40

<210> 971

<211> 67

<212> PRT

<213> Homo sapiens

<400> 971

Gln Lys Asp Arg Glu Ile Arg Ile Phe Cys Ala Glu Ser Pro Lys Phe 1 5 10 15

Pro Pro Glu Cys Asn Leu Gln Leu Pro Tyr Leu Leu Ser His Met Pro 20 25 30

Ser Asn Met Leu Asp Trp Leu Ile His Arg Pro Thr Gln Asn Thr Asn 35 40 45

Val Thr Cys Ser Cys Ser Leu Val Ala Ile Cys Leu Phe Ser Met Tyr 50 55 60

Pro Ala Trp 65

<210> 972

<211> 54

<212> PRT

<213> Homo sapiens

<400> 972

Ile Val Phe Phe Phe Ser Leu Phe Tyr Lys Cys Gln Phe Asn Ser Arg
1 5 10 15

Ala Leu Ala Gln Tyr Phe Leu Met Ile Phe Ser Pro Arg Lys Arg Arg 20 25 30

Lys Ser Leu Leu Val Thr Gln Leu Arg Cys Gln Thr Ser Ser Glu Thr 35 40 45

Cys Thr Val Ala Ala Tyr

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<210> 973
<211> 102
<212> PRT
<213> Homo sapiens
<400> 973
Val Val Leu Phe Glu His Lys Leu His Phe Tyr Phe Leu Met Gln Arg
  1
                   5
                                      10
                                                           15
Met Asn Lys Leu Asn Thr Cys Phe Glu Asp Arg Ser Arg Cys Ser Val
             20
                                  25
                                                       30
Trp His His Val Ile Ile Cys Leu Phe Tyr Asn Ile His Val Ser Leu
         35
                              40
Arg Asn His Gly Arg Asp Val Arg Ala Glu Tyr Thr Gln Gln Met Leu
                                              60
Lys Glu Lys Glu Gly Ser Val Leu Gln Lys Lys Lys Arg Thr Asn
                                          75
Arg Ile Leu Thr Leu Leu Thr Phe Pro Asn Phe Pro Met Leu Leu Val
                                      90
Asn Ile Ile Ile Val Ser
            100
<210> 974
<211> 365
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (297)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (316)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE <222> (321)

<220> <221> SITE <222> (335) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (347) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (363) <223> Xaa equals any of the naturally occurring L-amino acids Gly Met Lys Thr Asn Gly Gly Arg Cys Arg Val Arg Ala Leu Cys Trp 5 10 15 Ser Arg Arg Glu Trp Arg Gly Ala Gly Met Ala Gln Lys Lys Tyr Leu 20 25 Gln Ala Lys Leu Thr Gln Phe Leu Arg Glu Asp Arg Ile Gln Leu Trp 35 40 Lys Pro Pro Tyr Thr Asp Glu Asn Lys Lys Val Gly Leu Ala Leu Lys Asp Leu Ala Lys Gln Tyr Ser Asp Arg Leu Glu Cys Cys Glu Asn Glu 70 75 Val Glu Lys Val Ile Glu Glu Ile Arg Cys Lys Ala Ile Glu Arg Gly 85 90 Thr Gly Asn Asp Asn Tyr Arg Thr Thr Gly Ile Ala Thr Ile Glu Val 100 105 110 Phe Leu Pro Pro Arg Leu Lys Lys Asp Arg Lys Asn Leu Leu Glu Thr 115 120 125 Arg Leu His Ile Thr Gly Arg Glu Leu Arg Ser Lys Ile Ala Glu Thr 135 140 Phe Gly Leu Gln Glu Asn Tyr Ile Lys Ile Val Ile Asn Lys Lys Gln 150 155 Leu Gln Leu Gly Lys Thr Leu Glu Glu Gln Gly Val Ala His Asn Val 165 170

Lys Ala Met Val Leu Glu Leu Lys Gln Ser Glu Glu Asp Ala Arg Lys

185

190

Asn Phe Gln Leu Glu Glu Glu Gln Asn Glu Ala Lys Leu Lys Glu 195 200 205

Lys Gln Ile Gln Arg Thr Lys Arg Gly Leu Glu Ile Leu Ala Lys Arg 210 215 220

Ala Ala Glu Thr Val Val Asp Pro Glu Met Thr Pro Tyr Leu Asp Ile 225 230 235 240

Ala Asn Gln Thr Gly Arg Ser Ile Arg Ile Pro Pro Ser Glu Arg Lys
245 250 255

Ala Leu Met Leu Ala Met Gly Tyr His Glu Lys Gly Arg Ala Phe Leu 260 265 270

Lys Arg Lys Glu Tyr Gly Ile Ala Leu Pro Cys Leu Leu Asp Ala Asp 275 280 285

Lys Tyr Phe Cys Glu Cys Cys Arg Xaa Leu Leu Asp Thr Val Asp Asn 290 295 300

Tyr Ala Val Leu Gln Leu Asp Ile Val Trp Cys Xaa Phe Arg Leu Glu 305 310 315 320

Xaa Leu Glu Cys Leu Asp Asp Ala Glu Lys Lys Leu Asn Leu Xaa Gln 325 330 335

Lys Cys Phe Lys Asn Cys Tyr Gly Glu Asn Xaa Gln Arg Leu Val His 340 345 350

Ile Lys Val Cys Ser Trp Glu Phe Ile Leu Xaa Ala Arg 355 360 365

<210> 975

<211> 146

<212> PRT

<213> Homo sapiens

<400> 975

Arg Gly Cys Lys Arg Glu Gly Leu Ala Met Ser Ser Leu Ile Arg Arg

1 5 10 15

Val Ile Ser Thr Ala Lys Ala Pro Gly Ala Ile Gly Pro Tyr Ser Gln
20 25 30

Ala Val Leu Val Asp Arg Thr Ile Tyr Ile Ser Gly Gln Ile Gly Met
35 40 45

```
Asp Pro Ser Ser Gly Gln Leu Val Ser Gly Gly Val Ala Glu Glu Ala
      50
Lys Gln Ala Leu Lys Asn Met Gly Glu Ile Leu Lys Ala Ala Gly Cys
 65
                      70
Asp Phe Thr Asn Val Val Lys Thr Thr Val Leu Leu Ala Asp Ile Asn
                  85
                                      90
Asp Phe Asn Thr Val Asn Glu Ile Tyr Lys Gln Tyr Phe Lys Ser Asn
             100
                                 105
Phe Pro Ala Arg Ala Ala Tyr Gln Val Ala Ala Leu Pro Lys Gly Ser
                             120
                                                  125
Arg Ile Glu Ile Glu Ala Val Ala Ile Gln Gly Pro Leu Thr Thr Ala
                         135
Ser Leu
145
<210> 976
<211> 80
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (71)
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 976

Ser Ser Glu Leu Leu His Ser Phe Leu Gly Ser Val Ser Ser Gln
1 5 10 15

Asn His Arg Tyr Pro Xaa Xaa Ser Gln Thr Thr Ala Leu Gly Glu Gly
20 25 30

Thr Ile Arg Phe Thr Xaa Gly Phe His Thr Leu Met Leu Leu Ala Phe 35 40 45

Asn Leu Thr Thr Leu Asp Cys Gln Val Phe Thr Asp Xaa Trp Thr Trp 50 55 60

Ile Gln Asp Trp Glu Cys Xaa Gly Met Val Trp Gln Gln Cys Leu Leu 65 70 75 80

<210> 977

<211> 59

<212> PRT

<213> Homo sapiens

<400> 977

Thr Asp Asp Glu Phe Ser Gln Met Thr Leu Arg Asn Cys Phe Thr Lys
1 5 10 15

Asn Lys Val Ile Tyr Leu Leu Trp Glu Glu Leu Pro Ser Phe Cys Phe 20 25 30

Ser Ser Leu Pro Pro Phe Pro Cys Gly Cys Arg Ala Arg Ser Val Arg 35 40 45

Ser Trp Phe Cys Pro Ala Met Ile Arg Glu Ser 50 55

<210> 978

<211> 203

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 978

Leu Trp Glu Leu Lys Lys Leu Ser Val His Phe His Pro Ser Val Ala 1 5 10 15

Leu Phe Ala Lys Thr Ile Leu Gln Gly Asn Tyr Ile Gln Tyr Ser Gly
20 25 30

Asp Pro Leu Gln Asp Phe Thr Leu Met Arg Phe Leu Asp Arg Phe Val 35 40 45

Tyr Arg Asn Pro Lys Pro His Lys Gly Lys Glu Asn Thr Asp Ser Val
50 55 60

Val Met Gln Pro Lys Arg Lys His Phe Ile Lys Asp Ile Arg His Leu 65 70 75 80

Pro Val Asn Ser Lys Glu Phe Leu Ala Lys Glu Glu Ser Gln Ile Pro 85 90 95

Val Asp Glu Val Phe Phe His Arg Tyr Tyr Lys Lys Val Ala Val Lys
100 105 110

Glu Lys Gln Lys Arg Asp Ala Asp Glu Glu Ser Ile Glu Asp Val Asp 115 120 125

Asp Glu Glu Phe Glu Glu Leu Ile Asp Thr Phe Glu Asp Asp Asn Cys 130 135 140

Phe Ser Ser Gly Lys Asp Asp Met Asp Phe Ala Gly Asn Val Lys Lys 145 150 155 160

Arg Thr Lys Gly Ala Lys Asp Asn Thr Leu Asp Glu Asp Ser Glu Gly
165 170 175

Ser Asp Asp Glu Leu Gly Asn Leu Asp Asp Asp Xaa Ser Phe Phe Arg 180 185 190

Glu Val Trp Met Met Glu Glu Phe Ala Gly Ser 195 200

<210> 979

<211> 141

<212> PRT

<213> Homo sapiens

<400> 979

Ala Ala Gly Phe Gly Asp Phe Cys Leu Ile Ala Met Ser Gly Arg Gly

1 5 10 15

Lys Gln Gly Gly Lys Ala Arg Ala Lys Ala Lys Ser Arg Ser Ser Arg 20 25 30

Ala Gly Leu Gln Phe Pro Val Gly Arg Val His Arg Leu Leu Arg Lys 35 40 45

Gly Asn Tyr Ala Glu Arg Val Gly Ala Gly Ala Pro Val Tyr Leu Ala
50 55 60

Ala Val Leu Glu Tyr Leu Thr Ala Glu Ile Leu Glu Leu Ala Gly Asn 65 70 75 80

Ala Ala Arg Asp Asn Lys Lys Thr Arg Ile Ile Pro Arg His Leu Gln 85 90 95

Leu Ala Ile Arg Asn Asp Glu Glu Leu Asn Lys Leu Leu Gly Arg Val 100 105 110

Thr Ile Ala Gln Gly Gly Val Leu Pro Asn Ile Gln Ala Val Leu Leu 115 120 125

Pro Lys Lys Thr Glu Ser His His Lys Ala Lys Gly Lys 130 135 140

<210> 980

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 980

Gly Glu Leu Ser Phe Phe Gly Arg His Pro Asp Val Pro Arg Glu Ala 1 5 10 15

Ala Gly Ala His Gly Asp Arg His Ala Ser Pro Trp Ala Phe Phe Leu 20 25 30

Glu Arg Xaa Lys Ala Pro Arg Leu Thr Thr Arg Ser His Arg Leu Leu 35 40 45

Ser Asp Val Phe Ala Ala Ser Trp Thr Pro His Arg Met Leu Thr Thr 50 55 60

Lys Thr Leu Gln Pro Trp Val Ala Arg Leu Asp Glu Met Glu Arg Gly 65 70 75 80

Leu Phe Gln Thr Gly Gln Lys Gly Leu Asn Asp Phe Gln Cys Trp Glu
85 90 95

Lys Gly Gln Ala Ser Gln Ile Thr Ala Ser Asn Leu Val Gln Asn 100 105 110

<210> 981

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 981

Trp Arg Met Gly Phe Ser Arg Val Leu Cys Phe Thr Asn Ser Arg Glu
1 5 10 15

Asn Ser His Arg Leu Phe Leu Leu Val Gln Ala Phe Gly Gly Val Asp  $\phantom{\bigg|}20\phantom{\bigg|}25\phantom{\bigg|}30\phantom{\bigg|}$ 

Val Ala Glu Phe Ser Ser Arg Tyr Gly Pro Gly Gln Arg Arg Met Ile 35 40 45

Leu Lys Gln Phe Glu Gln Gly Lys Ile Gln Leu Leu Ile Ser Thr Asp
50 55 60

Ala Thr Ala Arg Gly Xaa Asp Val Gln Gly Val Glu Leu Val Val Asn 65 70 75 80

Tyr Asp Ala Pro Gln Tyr Leu Arg Thr Tyr Val His Arg Val Gly Arg
85 90 95

Thr Ala Arg Ala Gly Lys Thr Gly Gln Ala Phe Thr Leu Leu Lys 100 105 110

Val Gln Glu Arg Arg Phe Leu Arg Met Leu Thr Glu Ala Gly Ala Pro 115 120 125 Glu Leu Gln Arg His Glu Leu Ser Ser Lys Leu Leu Gln Pro Leu Val 130 135 140

Pro Arg Tyr Glu Glu Ala Leu Ser Gln Leu Glu Glu Ser Val Lys Glu 145 150 155 160

Glu Xaa Lys Gln Arg Ala Ala 165

<210> 982

<211> 108

<212> PRT

<213> Homo sapiens

<400> 982

Ala Asn Glu Pro Gln Phe Leu Ala Val Tyr Lys Lys Ser Leu Asn Ala 1 5 10 15

Asn Glu Glu Phe Lys Gly Leu Phe Lys Glu Met Lys Gly Phe Pro Asn 20 25 30

Arg Met Ile Tyr Ser Glu Glu Thr Asn Asn Gly Ile Ser Glu Thr His
35 40 45

Asn Leu Lys Pro Asn Leu Glu Asn Met Leu Cys Thr Lys Thr Thr Ala 50 55 60

Ser Ala Ser Ser Leu Ile Leu Thr Phe Phe Asn Arg Tyr Leu Leu Asn 65 70 75 80

Cys Pro Val Lys Arg Cys His Asn Ala Gln Tyr Cys Lys Gln Gln Val 85 90 95

Cys Ile His Glu Ala Phe Ile His Ser Gly Val Tyr 100 105

<210> 983

<211> 150

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 983

Phe Ser Leu Ser Leu Ser Met Thr Pro Gln Leu Leu Leu Ala Leu Val 1 5 10 15

Leu Trp Ala Ser Cys Pro Pro Cys Ser Gly Arg Lys Gly Pro Pro Ala 20 25 30

Ala Leu Thr Leu Pro Arg Val Gln Cys Arg Ala Ser Arg Tyr Pro Ile 35 40 45

Ala Val Asp Cys Ser Trp Thr Leu Pro Pro Ala Pro Asn Ser Thr Ser 50 55 60

Pro Val Ser Phe Ile Ala Thr Tyr Arg Leu Gly Met Ala Ala Arg Gly 65 70 75 80

His Ser Trp Pro Cys Leu Gln Gln Thr Pro Thr Ser Thr Ser Cys Thr 85 90 95

Ile Thr Asp Val Gln Leu Phe Ser Met Ala Pro Tyr Val Leu Asn Val
100 105 110

Thr Ala Val His Pro Trp Gly Ser Ser Ser Phe Val Pro Phe Ile 115 120 125

Thr Glu His Ile Ile Lys Pro Asp Pro Pro Glu Gly Val Arg Leu Ser 130 135 140

<210> 984

<211> 158

<212> PRT

<213> Homo sapiens

<400> 984

Arg Leu Cys Trp Val Lys Thr Leu Gln His Leu Leu Leu Arg Ser Thr
1 5 10 15

His Lys Asp Gln Val Gln His Arg Gly Leu Gly Thr Ser Leu Ala Ser 20 25 30

Gly Pro His Leu Thr Val Arg Gln Gln Leu Pro Ser Pro Ala Met Cys
35 40 45

Leu Leu Ser Gly Ser Ser Cys Leu Lys Leu Thr Ser Thr Phe Phe Pro 50 55 60

Asp Gly Gln Val Ala Glu Gly Pro Ala Ile Ser Val Ala Cys Cys His

65 70 75 80

Pro Val Pro Pro Leu Ala Ser Leu Ser Phe Ala Gln Lys Thr Asn Asn 85 90 95

His Thr Tyr Pro Asn Trp Asp Thr Thr Leu Gln Asn Ala Asp Asp Pro 100 105 110

Phe Trp Arg Lys Leu Ser Leu Glu Leu Ser Glu Leu Pro Gly Lys Gln
115 120 125

Gly Ile Trp Pro Thr Ser Leu Thr Thr Ala Ala Pro Thr Ser Pro Arg 130 135 140

Thr Gly Ala Ser Ala Leu Thr Glu Val Gly Arg Pro Lys Thr 145 150 155

<210> 985

<211> 40

<212> PRT

<213> Homo sapiens

<400> 985

Arg Trp Gly Cys Pro Gly Trp Ser Gln Thr Pro Glu Leu Lys Gln Cys
1 5 10 15

Ala Arg Leu Gly Phe Pro Lys Cys Trp Asp Tyr Arg Arg Lys Pro Leu 20 25 30

His Ala Ala Tyr Pro Leu Pro Phe
35 40

<210> 986

<211> 63

<212> PRT

<213> Homo sapiens

<400> 986

Val Phe Gly Ser Phe Ser Cys Ile His Ser Pro Ser Cys His Leu Val 1 5 10 15

Lys Lys Val Pro Trp Phe Pro Phe Thr Phe Asn His Asp Cys Lys Phe 20 25 30

Pro Glu Ala Pro Pro Ala Met Gly Asp Cys Glu Ser Ile Lys Pro Leu 35 40 45 Ser Phe Ile Asn Tyr Pro Val Ser Gly Ser Phe Leu Ile Ala Val 50 55 60

<210> 987

<211> 90

<212> PRT

<213> Homo sapiens

<400> 987

His His Arg Ile Asn Cys Val His Leu Tyr His Cys Phe Thr Ser Leu 1 5 10 15

Trp Trp Ile Tyr Met Ala Lys Leu Cys Glu Glu Ile Gly Lys Lys
20 25 30

Leu Pro Leu Thr Lys Asp Met Arg Glu Gln Gly Val Lys Ser Asn Pro 35 40 45

Cys Asp Ser Ser Leu Ser His Thr Asp Arg Trp Tyr Leu Pro Val Ser 50 55 60

Ser Thr Leu Phe Ser Leu Phe Lys Ile Leu Phe His Ala Ser Arg Phe 65 70 75 80

Ile Phe Val Leu Ser Thr Ser Leu Phe Leu 85 90

<210> 988

<211> 50

<212> PRT

<213> Homo sapiens

<400> 988

Ala Gln Glu Glu Lys Lys Pro Tyr Leu Cys Ser Arg Phe Cys Lys Gly
1 5 10 15

Glu Ile Ser Thr Glu Arg Asn His Cys Tyr Thr Ser Ala Lys Thr Gln
20 25 30

Gly Leu Gly Asp Leu Phe Leu Phe Ile Cys Phe Gly Tyr Leu Ala Ser 35 40 45

Phe Ser

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<210> 989
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<211> 92

<212> PRT

<213> Homo sapiens

<400> 989

Arg Met Lys Arg Ser Arg Arg Trp Ser Arg Tyr Lys Ala Leu Asn Ala 1 5 10 15

Gly Arg Thr Ser Lys Arg Ile His Lys Gly Leu Val Val Arg Lys Gly
20 25 30

Trp Leu Gly Lys Leu Pro Ser Leu Pro Leu Arg Trp Arg Ala Arg Gly
35 40 45

Val Met Thr Leu Met Phe Ile Leu Leu Ala Ala Met Leu Trp Phe Val 50 55 60

Ala Ala Pro Val Val Thr Tyr Ile Leu Cys Ala Leu Val Val Leu Leu 65 70 75 80

Ala Ala Pro Val Leu Asn Gly Arg Leu Tyr Ala Arg
85 90

<210> 990

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 990

Ser Gly Leu Ile Pro Phe Pro Phe Gln Arg Ile Ala Lys Lys Leu 1 5 10 15

Thr Val Glu Ala Gly Cys Ser Glu Val Gly Cys Gly Val Gly Gly Thr
20 25 30

Xaa Gly Xaa Ala Leu Trp Ala Gly Ala Gly Gly Phe Glu Gly Leu Ser

Ser Thr Arg Ala Gln Arg Ser Cys Gln Trp Pro Val Ala Leu Pro Pro 50 55 60

Phe Pro Glu Arg Gly Ser Arg Gly His Pro Gly Arg Leu Gly Pro Gly 65 70 75 80

Pro Pro Ser Ala Leu Ala Ser 85

<210> 991

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 991

Phe Ala Thr Asp Arg Phe Phe Lys Cys Trp His Asn Ala Gln Ser Ser 1 5 10 15

Met Arg Glu Gln Pro Ile Phe Thr Thr Arg Ala His Val Phe Gln Ile
20 25 30

Asp Pro Asn Thr Lys Lys Asn Trp Met Pro Ala Ser Lys Xaa Ala Val 35 40 45

Thr Val Ser Tyr Phe Tyr Asp Val Thr Arg Asn Ser Tyr Arg Ile Ile 50 55 60

Ser Val Asp Gly Ala Lys Val Ile Ile Asn Ser Thr Ile Thr Pro Asn 65 70 75 80

Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser 85 90 95

Arg Ala Asn Thr Val Phe Gly Leu Gly Phe Ser Ser Glu Gln Gln Leu 100 105 . 110

Thr Lys Phe Ala Glu Lys Phe Gln Glu Val Lys Glu Ala Ala Lys Ile 115 120 125 Ala Lys Asp Lys Thr Gln Glu Lys Ile Glu Thr Ser Ser Asn His Ser 130 135 140

Gly Pro Ala Asn Thr His Leu Lys Ser Glu Asn Asp Lys Leu Lys Ile 165 170 175

Ala Leu Thr Gln Ser Ala Pro Thr 180

<210> 992

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 992

Pro Cys His Leu Gln His Glu Glu Ser Leu Ser Gly Val Lys Val Asn
1 5 10 15

Glu Thr Asn Arg Asp Xaa Arg Pro Gly Glu Ile Leu Val Thr Leu Leu
20 25 30

Glu Ser Cys Gln Ser Tyr Thr Gly Val Leu Leu Ile Gln Asn Asn Ser 35 40 45

Asn Asn Pro Ser Val Ser Tyr Val Tyr Ala Asn Phe Asn Lys Lys 50 55 60

Leu Asp

65

<210> 993

<211> 434

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (25) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (95) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (99) <223> Xaa equals any of the naturally occurring L-amino acids <400> 993 Ser Gly Pro Gly Val Gln Trp Val Gln Pro Ala Cys Xaa Leu Arg Pro Asp Arg Gly Ala Pro Thr Asp Gly Xaa Gly Gly Ala Leu Gln Ala Glu Thr Pro Ser Ser Ala Glu Ser Gln Glu Phe Trp Glu Val Lys Arg Lys 35 40 Glu Lys Leu Ile Thr Asn Gly Thr Ile Phe Cys Phe Glu Met Glu Pro 50 55 Ala Val Ser Glu Pro Met Arg Asp Gln Val Ala Arg Thr His Leu Thr 65 70 Glu Asp Thr Pro Lys Val Asn Ala Asp Ile Glu Lys Val Asn Xaa Asn 90 Gln Ala Xaa Arg Cys Thr Val Ile Gly Gly Ser Gly Phe Leu Gly Gln 105 His Met Val Glu Gln Leu Leu Ala Arg Gly Tyr Ala Val Asn Val Phe 120 Asp Ile Gln Gln Gly Phe Asp Asn Pro Gln Val Arg Phe Phe Leu Gly 130 135 Asp Leu Cys Ser Arg Gln Asp Leu Tyr Pro Ala Leu Lys Gly Val Asn 145 150 155

Leu Phe Tyr Arg Val Asn Tyr Ile Gly Thr Lys Asn Val Ile Glu Thr

Thr Val Phe His Cys Ala Ser Pro Pro Pro Ser Ser Asn Asn Lys Glu

170

175

180 185 190

Cys Lys Glu Ala Gly Val Gln Lys Leu Ile Leu Thr Ser Ser Ala Ser 195 200 205

Val Ile Phe Glu Gly Val Asp Ile Lys Asn Gly Thr Glu Asp Leu Pro 210 215 220

Tyr Ala Met Lys Pro Ile Asp Tyr Tyr Thr Glu Thr Lys Ile Leu Gln 225 230 235 240

Glu Arg Ala Val Leu Gly Ala Asn Asp Pro Glu Lys Asn Phe Leu Thr
245 250 255

Thr Ala Ile Arg Pro His Gly Ile Phe Gly Pro Arg Asp Pro Gln Leu 260 265 270

Val Pro Ile Leu Ile Glu Ala Ala Arg Asn Gly Lys Met Lys Phe Val 275 280 285

Ile Gly Asn Gly Lys Asn Leu Val Asp Phe Thr Phe Val Glu Asn Val 290 295 300

Val His Gly His Ile Leu Ala Ala Glu Gln Leu Ser Arg Asp Ser Thr 305 310 315 320

Leu Gly Gly Lys Ala Phe His Ile Thr Asn Asp Glu Pro Ile Pro Phe 325 330 335

Trp Thr Phe Leu Ser Arg Ile Leu Thr Gly Leu Asn Tyr Glu Ala Pro 340 345 350

Lys Tyr His Ile Pro Tyr Trp Val Ala Tyr Tyr Leu Ala Leu Leu Leu 355 360 365

Ser Leu Leu Val Met Val Ile Ser Pro Val Ile Gln Leu Gln Pro Thr 370 375 380

Phe Thr Pro Met Arg Val Ala Leu Ala Gly Thr Phe His Tyr Tyr Ser 385 390 395 400

Cys Glu Arg Ala Lys Lys Ala Met Gly Tyr Gln Pro Leu Val Thr Met
405 410 415

Asp Asp Ala Met Glu Arg Thr Val Gln Ser Phe Arg His Leu Arg Arg
420 425 430

Val Lys

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<210> 994
 <211> 29
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 994
 Met Leu His Gly Ile Thr Ser Phe Ile Leu Tyr Lys Ser Ile Met Cys
                                       10
                                                            15
 Xaa Glu Leu Lys Thr Ser Leu Gly Asn Ile Asn Ser Ser
              20
                                  25
<210> 995
<211> 175
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 995
Arg Gly Leu Val Arg Gly Ala Met Val Gly Gly Met Gln Glu Arg Glu
Pro Ala Leu Thr Val Lys Leu Arg Leu Phe Xaa Pro Gln Pro Ser Thr
             20
                                  25
                                                       30
```

Pro Ala Gln Thr Gly Ser Trp Ala Leu Phe Cys Leu Ser Gln Pro His
35 40 45

Ser Lys Pro Xaa Pro Pro Ala Pro Pro Tyr Cys Asn Ser Pro His Ser 50 55 60

His Thr Arg Ser Pro Leu Pro Pro Thr Tyr Xaa Arg Xaa Phe Ser Pro 65 70 75 80

Leu Pro Ser Gln Leu Pro Ala Pro Ser Cys Phe Thr Lys Gly Glu Val 85 90 95

Pro Gly His Leu Arg Val Ser Leu Cys Gly Ala Gln Asn Leu Gln Gly
100 105 110

Pro Leu Ser Met Pro Leu Val Pro Trp Thr Val Ser Leu Val His Leu 115 120 125

Leu Ser Pro Ser Ile Leu Ser Gln Ser Thr Asp Phe Ser His Ser Ala 130 135 140

Val Ser Val Gln Pro Tyr Pro Arg Asp Leu Asp Ala Trp Pro Pro Asn 145 150 155 160

Leu Ala Leu Gly Tyr Pro Asp Ala Asn Gln Thr Pro Pro Ser Ser 165 170 175

<210> 996

<211> 218

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE <222> (173) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (182) <223> Xaa equals any of the naturally occurring L-amino acids <400> 996 Thr Leu Ser His Gln Val Thr Gln Gln Met Asn Met Leu Ile Gly Val 10 Glu Leu Gln Arg Leu Leu Val Cys Gln Val Phe Leu Phe Ile Gln Leu 20 25 Asp Thr Met His Ala Gln Lys Leu Leu Xaa Lys Met Gly Gly Ser Ala 35 40 45 Pro Pro Asp Ser Ser Trp Arg Gly Ser Leu Lys Val Pro Tyr Asn Val 50 55 Gly Pro Gly Phe Thr Gly Asn Phe Ser Thr Gln Lys Val Lys Met His 70 Ile His Ser Thr Asn Glu Val Thr Arg Ile Tyr Asn Val Ile Gly Thr 85 90 Leu Arg Gly Ala Val Glu Pro Asp Arg Tyr Val Ile Leu Gly Gly His 105 Arg Asp Ser Trp Val Xaa Gly Gly Ile Asp Pro Gln Ser Gly Ala Ala 115 120 Val Val His Glu Ile Val Arg Ser Phe Gly Thr Leu Lys Lys Glu Gly 130 135 140 Trp Arg Pro Arg Arg Thr Ile Leu Phe Ala Ser Trp Asp Ala Glu Glu 145 150 155 Phe Gly Leu Leu Gly Ser Thr Glu Trp Ala Glu Xaa Xaa Ser Arg Leu 165 170 175 Leu Gln Glu Arg Gly Xaa Gly Phe Ile Leu Asn Ala Asp Ser Ser Ile 185 Gly Arg Lys Leu His Ser Glu Glu Leu Asp Cys Thr Pro Leu Asp Val 200

Gln Leu Gly Thr Gln Pro Tyr Gln Arg Ala

215

<222> (18)

<220>

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<210> 997
 <211> 119
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 997
Gly Arg Arg Gln Pro Thr Pro Xaa Thr Ser Pro Glu Pro Pro Arg Ser
                                      10
Ser Pro Arg Gln Thr Pro Ala Pro Gly Pro Ala Arg Glu Lys Ser Ala
             20
                                  25
Gly Lys Arg Gly Pro Asp Arg Gly Ser Pro Glu Tyr Arg Gln Arg Arg
                              40
Glu Arg Asn Asn Ile Ala Val Arg Lys Ser Arg Asp Lys Ala Lys Arg
     50
Arg Asn Gln Glu Met Gln Gln Lys Leu Val Glu Leu Ser Ala Glu Asn
 65
                     70
                                          75
                                                               80
Glu Lys Leu His Gln Arg Val Glu Gln Leu Thr Arg Asp Leu Ala Gly
                 85
                                      90
                                                           95
Leu Arg Gln Phe Phe Lys Gln Leu Pro Ser Pro Pro Phe Leu Pro Ala
            100
                                 105
Ala Gly Thr Ala Asp Cys Arg
        115
<210> 998
<211> 101
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 998

Leu Val Asn Gly Ala Arg Lys Val Thr Gly Gln Arg Thr Gln Met Tyr

1 5 10 15

Arg Xaa Asp Met Xaa Asn Asn Lys Asn Gly Val Asp Gln Glu Ile Ile
20 25 30

Phe Pro Pro Ile Lys Thr Asp Val Ile Thr Met Asp Pro Lys Asp Asn 35 40 45

Cys Ser Lys Asp Ala Asn Asp Thr Leu Leu Leu Gln Leu Thr Asn Thr 50 55 60

Ser Ala Tyr Tyr Met Tyr Leu Leu Leu Leu Leu Lys Ser Val Val Tyr 65 70 75 80

Phe Ala Ile Ile Thr Cys Cys Leu Leu Arg Arg Thr Ala Phe Cys Cys 85 90 95

Asn Gly Glu Lys Ser 100

<210> 999

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 999

Gly Thr Ser Ala Gly Val Asn Pro Tyr Lys Cys Ser Gln Cys Glu Lys

1 10 15

Ser Phe Ser Gly Lys Leu Arg Leu Leu Val His Gln Arg Met His Thr
20 25 30

Arg Glu Lys Pro Tyr Glu Cys Ser Glu Cys Gly Lys Ala Phe Ile Arg
35 40 45

Asn Ser Gln Leu Ile Val His Gln Arg Thr His Ser Gly Glu Lys Pro 50 55 60

```
Tyr Gly Xaa Gln
65
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<210> 1000

<211> 320

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1000

Arg Pro Cys Glu Arg Thr Val Arg Pro Arg His Ser Gly His Ser Gly
1 5 10 15

Pro Asn Xaa Cys Cys Ser Cys Arg Cys Ser Ser Cys Thr Gly Glu Ala 20 25 30

Ala Ile Ala Gly Arg Leu Arg Thr Ala Ala Ala Gly Ala Arg Thr Ala 35 40 45

Gly Ala Ala Leu Arg His Leu Gly Ala Gly Gln Arg Glu Leu Gly Pro
50 55 60

Arg Leu Glu Glu Thr Lys Trp Glu Val Cys Gln Lys Ser Gly Glu Ile
65 70 75 80

Ser Leu Leu Lys Gln Gln Leu Lys Glu Ser Gln Ala Glu Leu Val Gln 85 90 95

Lys Gly Ser Glu Leu Val Ala Leu Arg Val Ala Leu Arg Glu Ala Arg 100 105 110

Ala Thr Leu Arg Val Ser Glu Gly Arg Ala Arg Gly Leu Gln Glu Ala 115 120 125

Ala Arg Ala Arg Glu Leu Glu Leu Glu Ala Cys Ser Gln Glu Leu Gln 130 135 140

Arg His Arg Gln Glu Ala Glu Gln Leu Arg Glu Lys Ala Gly Gln Leu 145 150 155 160

Asp Ala Glu Ala Ala Gly Leu Arg Glu Pro Pro Val Pro Pro Ala Thr 165 170 175

Ala Asp Pro Phe Leu Leu Ala Glu Ser Asp Glu Ala Lys Val Gln Arg 180 185 190 Ala Ala Gly Val Gly Gly Ser Leu Arg Ala Gln Val Glu Arg Leu 195 200 205

Arg Val Glu Leu Gln Arg Glu Arg Arg Arg Gly Glu Glu Gln Arg Asp 210 215 220

Ser Phe Glu Gly Glu Arg Leu Ala Trp Gln Ala Glu Lys Glu Gln Val 225 230 235 240

Ile Arg Tyr Gln Lys Gln Leu Gln His Asn Tyr Ile Gln Met Tyr Arg
245 250 255

Arg Asn Arg Gln Leu Glu Gln Glu Leu Gln Gln Leu Ser Leu Glu Leu 260 265 270

Glu Ala Arg Glu Leu Ala Asp Leu Gly Leu Ala Glu Gln Pro Pro Ala 275 280 285

Ser Ala Trp Arg Arg Ser Leu Leu Leu Arg Ser Arg Ala Leu Ser Asn 290 295 300

Gln Leu Cys Arg Glu Leu Cys Gln Arg Gly Ser Ser Cys Arg Ser Thr 305 310 315 320

<210> 1001

<211> 70

<212> PRT

<213> Homo sapiens

<400> 1001

Gly Leu Cys Phe Leu Pro Trp Val Gly Phe Ser Ser Met His Val Gly
1 5 10 15

Cys Phe Ser Leu Asn Leu Ile Val Cys Leu Val Cys Phe Pro Pro Phe 20 25 30

Pro Phe Leu Phe Lys Leu Ile His Arg Thr Gln Lys Phe Thr Arg Tyr
35 40 45

Glu His Leu Lys Lys Trp Asn Arg Glu Asn Gly Thr Ser His Val Ile 50 60

Lys Ile Asn Ile Val Leu 65 70

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<210> 1002
 <211> 79
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1002
Ile Phe Tyr Thr Ile Leu Gln Trp Asp Arg Asn Cys Leu Thr Pro Ala
                   5
                                      10
                                                           15
Gly Val Thr Pro His Glu Pro Gln Gly Ser Ser Val Pro Lys Xaa Lys
             20
                                  25
                                                       30
Lys Gly Asn Arg Trp Pro Pro Pro Leu Pro His Ser Pro Gly Thr Gln
                              40
Asp Cys Ser Leu Lys Val Phe Glu Pro Pro Ser Phe Pro Phe Leu Leu
                          55
Gly Gly Gln Gly Xaa Leu Asn Ser Arg Ala Leu Pro Val Leu Pro
                     70
                                          75
<210> 1003
<211> 158
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1003
Ile Arg His Glu Gly Thr Leu Asn Gln Pro Leu Thr Lys Leu Asp Arg
                  5
Ser Ser Glu Glu Pro Leu Gly Val Leu Val Asn Pro Asn Met Tyr Gln
             20
                                  25
                                                       30
```

Ser Pro Pro Gln Trp Val Asp His Thr Gly Ala Ala Ser Gln Lys Lys
35 40 45

Ala Phe Arg Ser Ser Gly Phe Gly Leu Glu Phe Asn Ser Phe Gln His 50 55 60

Gln Leu Arg Ile Gln Asp Gln Glu Phe Gln Glu Gly Phe Asp Gly Gly
65 70 75 80

Trp Cys Leu Ser Val His Gln Pro Trp Xaa Ser Leu Leu Val Arg Gly
85 90 95

Ile Lys Arg Val Glu Gly Arg Ser Trp Tyr Thr Pro His Arg Gly Arg .100 105 110

Leu Trp Ile Ala Ala Thr Ala Lys Lys Pro Ser Pro Gln Glu Val Ser 115 120 125

Glu Leu Gln Ala Thr Tyr Arg Leu Leu Arg Gly Lys Asp Val Glu Phe 130 135 140

Pro Asn Asp Tyr Pro Ser Val Val Phe Trp Ala Val Trp Thr 145 150 155

<210> 1004

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1004

Ala Gly Thr Leu Thr Pro Ala Tyr Cys Leu Lys Thr Ser Pro Thr Gly
1 5 10 15

Xaa Phe Met Val Ser Tyr Pro Leu Pro His Ile Phe Leu Ala Thr Arg 20 25 30

Gln Glu Thr Tyr Leu Trp His Leu Gln Ile Ser Xaa Ile Xaa Phe Trp 35 40 45

Xaa Phe Pro Cys Leu Ala Ile Cys Phe Ile Glu Trp Val Ser Glu Thr 50 55 60

<210> 1005

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1005

Ser Ser Lys Phe Arg Ala Ile Asn Pro Ile Ser Val Ile Lys Ser Ser 1 5 10 15

Thr Asp Asn Asn Glu Gln Leu Leu Lys Ser Asn Ile Leu Ser Leu Phe 20 25 30

Thr Asn Val Ser Leu Ser Ile Gly Thr Phe Leu Xaa Tyr Leu Phe Ala 35 40 45

Cys His Tyr Asp Gln Lys Lys Gln Lys Ala Thr Gln Lys Gly Gln Pro 50 55 60

His Ser Lys

65

<210> 1006

<211> 223

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1006

Leu Asp Lys Lys Arg Lys Lys Asp Met Leu Asn Ser Lys Thr Lys Thr 1 5 10 15

Gln Tyr Phe His Gln Glu Lys Trp Ile Tyr Val His Lys Gly Ser Thr 20 25 30

Xaa Glu Arg His Gly Tyr Cys Thr Leu Gly Xaa Ala Phe Asn Arg Leu 35 40 45

Asp Phe Ser Thr Ala Ile Leu Asp Ser Arg Arg Phe Asn Tyr Val Val 50 55 60

Arg Leu Leu Glu Leu Ile Ala Lys Ser Gln Leu Thr Ser Leu Ser Gly 65 70 75 80

Ile Ala Gln Lys Asn Phe Met Asn Ile Leu Glu Lys Val Val Leu Lys
85 90 95

Val Leu Glu Asp Gln Gln Asn Ile Arg Leu Ile Arg Glu Leu Leu Gln 100 105 110

Thr Leu Tyr Thr Ser Leu Cys Thr Leu Val Gln Arg Val Gly Lys Ser 115 120 125

Val Leu Val Gly Asn Ile Asn Met Trp Val Tyr Arg Met Glu Thr Ile 130 135 140

Leu His Trp Gln Gln Gln Leu Asn Asn Ile Gln Ile Thr Arg Pro Ala 145 150 155 160

Phe Lys Gly Leu Thr Phe Thr Asp Leu Pro Leu Cys Leu Gln Leu Asn 165 170 175

Ile Met Gln Arg Leu Ser Asp Gly Arg Asp Leu Val Ser Leu Gly Gln
180 185 190

Leu Pro Pro Thr Cys Thr Cys Ser Ala Lys Thr Gly Cys Cys Gly Arg
195 200 205

Asn Ser Ala Ser Thr Thr Ser Pro Ser Gly Arg Ser Ala Asn Asp 210 215 220

<210> 1007

<211> 152

<212> PRT

<213> Homo sapiens

<400> 1007

Phe Gly Thr Ser Phe Cys Trp Cys Tyr Phe Gln Phe Tyr Phe Gln Cys

1 10 15

His Asn Arg Val Ile Phe Lys Gln Leu Leu Gln Ala Lys Ala Leu Gln
20 25 30

Phe Leu Gln Ile Asp Ser Cys Arg Leu Gly Ser Val Asn Glu Asn Leu 35 40 45

Ser Val Leu Leu Met Ala Lys Lys Phe Glu Ile Pro Val Cys Pro His
50 55 60

Ala Gly Gly Val Gly Leu Cys Glu Leu Val Gln His Leu Ile Ile Phe 65 70 75 80

Asp Tyr Ile Ser Val Ser Ala Ser Leu Glu Asn Arg Val Cys Glu Tyr 85 90 95

Val Asp His Leu His Glu His Phe Lys Tyr Pro Val Met Ile Gln Arg 100 105 110

Ala Ser Tyr Met Pro Pro Lys Asp Pro Gly Tyr Ser Thr Glu Met Lys
115 120 125

Glu Glu Ser Val Lys Lys His Gln Tyr Pro Asp Gly Glu Val Trp Lys 130 135 140

Lys Leu Leu Pro Ala Gln Glu Asn 145 150

<210> 1008

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1008

Arg Glu Glu Ile Met Lys Gly Arg Glu Tyr Gln Glu Ala Gly Xaa Trp

1 5 10 15

Gly Pro Ser Gln Arg Leu Pro Asn Thr Gly Tyr Ser Leu Ala Pro Asp
20 25 30

Asp Ser Cys Ser Phe Gln Met Gln Asn Ala Pro Ser Gln Asp Leu Gln 35 40 45

Lys Ser Tyr Pro Ile Ile Gly Leu Ala Gln Ser Ser Glu Pro Tyr His
50 55 60

Leu Lys Phe Gln Val 65

<210> 1009

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1009

Val Ile Val Asn Val Leu Asn Tyr Gln Leu Glu Gly Ile Phe Val Leu
1 5 10 15

Lys Val Asp Ile Glu Glu Pro Lys Trp Met Met Gly Phe Gly Ala Ser 20 25 30

Ser Glu Ser Met Phe Pro Leu Lys Tyr Phe Pro Lys Gln Trp Tyr Thr 35 40 45

Trp Leu Phe Tyr Tyr Glu Ile Cys Ile Cys Xaa Val Phe Leu Cys Glu 50 55 60

Gln Cys Phe Ser Leu Ser Val Thr Ile Cys Lys Gly Lys Ser Thr Asn 65 70 75 80

Ile Asp Tyr Ile Ala Gln Asn

<210> 1010

<211> 164

<212> PRT

<213> Homo sapiens

<400> 1010

Asp His Pro Ala Glu Glu Leu Gly Gln Ser Ile Cys Ile Cys His Pro

1 5 10 15

Arg Thr Leu Thr Met Lys Thr Leu Leu Leu Leu Ala Val Ile Met Ile 20 25 30

Phe Gly Leu Leu Gln Ala His Gly Asn Leu Val Asn Phe His Arg Met 35 40 45

Ile Lys Leu Thr Thr Gly Lys Glu Ala Ala Leu Ser Tyr Gly Phe Tyr 50 55 60

Gly Cys His Cys Gly Val Gly Gly Arg Gly Ser Pro Lys Asp Ala Thr
65 70 75 80

Asp Arg Cys Cys Val Thr His Asp Cys Cys Tyr Lys Arg Leu Glu Lys 85 90 95

Arg Gly Cys Gly Thr Lys Phe Leu Ser Tyr Lys Phe Ser Asn Ser Gly
100 105 110

Ser Arg Ile Thr Cys Ala Lys Gln Asp Ser Cys Arg Ser Gln Leu Cys 115 120 125

Glu Cys Asp Lys Ala Ala Ala Thr Cys Phe Ala Arg Asn Lys Thr Thr 130 135 140

Tyr Asn Lys Lys Tyr Gln Tyr Tyr Ser Asn Lys His Cys Arg Gly Ser 145 150 155 160

Thr Pro Arg Cys

<210> 1011

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1011
Pro Thr Arg Pro Arg Arg Ala Ala Phe Pro Val Trp Val Pro Glu Arg
                  5
Thr Ala Leu Leu Thr Cys Pro Leu Gly Ala Ala Pro Gly Ser Ser Arg
             20
                                  25
Glu Ala Pro Gly Ile Ala Gly Pro Pro Asn Ser Thr Ala Met Ser Lys
Leu Gly Lys Phe Phe Lys Gly Gly Ser Ser Lys Ser Arg Ala Ala
                         55
Pro Ser Pro Gln Glu Ala Leu Val Arg Leu Arg Glu Thr Glu Glu Met
 65
                                         75
Leu Gly Lys Lys Gln Glu Tyr Leu Glu Asn Arg Ile Gln Arg Glu Ile
                 85
                                      90
                                                          95
Ala Leu Ala Lys Lys Xaa Gly Thr Gln Xaa Lys Arg Gly Ile Xaa Thr
            100
                                105
                                                     110
Lys
<210> 1012
<211> 79
<212> PRT
<213> Homo sapiens
<400> 1012
Leu Thr Asp Leu Pro Cys Asn Lys Ile Val Phe Cys Glu Lys Gln Glu
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Gln Lys Asn Cys Glu Gln Val Ala Gly Phe Thr Ile Leu Gln Asp Thr 35 40 45

Met Asn Asn Ser Val Gly Thr Pro Leu Gln Ile Ser Gln Glu Ile

25

20

10

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Ala Ser Tyr Ser Lys Phe Leu Gln Asp Asn Asp Ala Gln Leu Phe Thr
                           55
                                               60
 Tyr Leu Cys Leu Asn Ile Pro Ile Ser Leu Thr Phe Ile Leu Trp
                      70
                                           75
<210> 1013
<211> 54
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1013
Gln Asp Arg Glu Gly Phe Gly Ser Gly Gln Ala Gly Asp Gly Tyr Glu
                   5
His Leu Ser Phe Glu Thr Cys Arg Gly Gly Asn Glu Gly Arg Gly Pro
             20
                                  25
Cys Val Glu Val Phe Ile Gln Glu Ala Val Val Pro Leu Gly Leu Asn
         35
                              40
                                                   45
Ile Ala Ser Xaa Arg Gln
     50
<210> 1014
<211> 95
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids
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Ala Gly Asp Leu Arg Ala Gly Ser Thr Leu Lys Arg Phe Gly Phe Pro

<400> 1014

1 5 10 15

Eq Pro Gly Trp Gly Glu Arg Ala Gly Cys Pro Leu Asp Ser Pro

Arg Pro Gly Trp Gly Glu Arg Ala Gly Cys Pro Leu Asp Ser Pro Pro 20 25 30

Pro His Leu Met Ser Arg Pro Ser Ala Pro Trp Ser Xaa Ala Ile Met 35 40 45

Pro Pro Trp Xaa Gly Ala Lys Asp Ile Glu Gly Leu Leu Gly Ala Gly
50 55 60

Gly Gly Arg Asn Leu Val Ala His Ser Pro Leu Thr Ser His Pro Ala 65 70 75 80

Ala Pro Thr Leu Met Pro Ala Val Asn Tyr Ala Pro Leu Asp Leu 85 90 95

<210> 1015

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1015

Gln Lys Arg Ser Glu Asn Ile Lys Gln Val Glu Val Trp Ser Ile Leu 1 5 10 15

Ser Lys Met Asn Ile Ser Gly Ser Ser Cys Gly Ser Pro Asn Ser Ala 20 25 30

Asp Thr Ser Ser Asp Phe Lys Asp Leu Trp Thr Lys Leu Lys Glu Cys
35 40 45

His Asp Arg Glu Val Gln Gly Leu Gln Val Lys Val Thr Lys Leu Lys 50 55 60

Gln Glu Arg Ile Leu Asp Ala Gln Arg Leu Glu Glu Phe Phe Thr Lys
65 70 75 80

Asn Gln Gln Leu Arg Glu Gln Gln Lys Val Leu His Glu Thr Ile Lys
85 90 95

Val Leu Glu Asp Arg Leu Arg Ala Gly Leu Cys Asp Arg Cys Ala Val 100 105 110

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Thr Glu Glu His Met Arg Lys Lys Gln Glu Phe Glu Asn Ile Pro
        115
                             120
                                                  125
Ala Ala Xaa Ser
    130
<210> 1016
<211> 43
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1016
Gly Gly Arg Phe Xaa Val His Arg Thr Pro Ile Thr His Pro Ala Ser
                                      10
Gln Val Glu Gly Leu Gln Val Arg Arg Cys Ile Pro Gln Gly Leu Met
                                  25
Leu Ser Ala Ile Phe Ile Pro Arg Gln Xaa Ser
                              40
<210> 1017
<211> 188
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1017

Cys Arg Ala Ser Phe Ala Gly Pro Ala Ala Leu Gln Asp Arg Asp Trp

1 10 15

Gln Arg Thr Val Ile Ala Met Asn Gly Ile Glu Val Lys Leu Ser Val 20 25 30

Lys Phe Asn Ser Arg Glu Phe Ser Leu Lys Arg Met Pro Ser Arg Lys
35 40 45

Gln Thr Gly Val Phe Gly Val Lys Ile Ala Val Val Thr Lys Arg Glu
50 55 60

Arg Ser Lys Val Pro Tyr Ile Val Arg Gln Cys Val Glu Glu Ile Glu 65 70 75 80

Arg Arg Gly Met Glu Glu Val Gly Ile Tyr Arg Val Ser Gly Val Ala 85 90 95

Thr Asp Ile Gln Ala Leu Lys Ala Xaa Phe Asp Val Asn Asn Lys Asp 100 105 110

Val Ser Val Met Met Ser Glu Met Asp Val Asn Ala Ile Ala Gly Thr 115 120 125

Leu Lys Leu Tyr Phe Arg Glu Leu Pro Glu Pro Leu Phe Thr Asp Glu 130 135 140

Phe Tyr Pro Asn Phe Ala Glu Gly Ile Ala Leu Ser Asp Pro Val Ala 145 150 155 160

Lys Glu Ser Cys Met Leu Asn Leu Leu Ser Leu Ala Gly Ala Asn 165 170 175

Leu Ala Ser Xaa Phe Leu Phe Leu Phe Gly Thr Xaa 180 185

<210> 1018

<211> 424

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1018

Gly Thr Ser Val Asp Glu Gly Ser Ile Ser Pro Arg Thr Leu Ser Ala 1 5 10 15

Ile Lys Arg Ala Leu Asp Asp Asp Xaa Asp Val Lys Val Cys Ala Gly
20 25 30

Asp Asp Val Gln Thr Gly Gly Pro Gly Ala Glu Glu Met Arg Ile Asn 35 40 45

Ser Ser Thr Glu Asn Ser Asp Glu Gly Leu Lys Val Arg Asp Gly Lys 50 55 60

Gly Ile Pro Phe Thr Ala Thr Leu Ala Ser Ser Ser Val Asn Ser Ala 65 70 75 80

Glu Glu His Val Ala Ser Thr Asn Glu Gly Arg Glu Pro Thr Asp Ser 85 90 95

Val Pro Lys Glu Gln Met Ser Leu Val His Val Gly Thr Glu Ala Phe 100 105 110

Pro Ile Ser Asp Glu Ser Met Ile Lys Asp Arg Lys Asp Arg Leu Pro 115 120 125

Leu Glu Ser Ala Val Val Arg His Ser Asp Ala Pro Gly Leu Pro Asn 130 135 140

Gly Arg Glu Leu Thr Pro Ala Ser Xaa Thr Cys Thr Asn Ser Val Ser 145 150 155 160

Lys Asn Glu Thr His Ala Glu Val Leu Glu Gln Gln Asn Glu Leu Cys 165 170 175

Pro Tyr Glu Ser Lys Phe Asp Ser Ser Leu Leu Ser Ser Asp Asp Glu 180 185 190

Thr Lys Cys Lys Pro Asn Ser Ala Ser Glu Val Ile Gly Pro Val Ser 195 200 205

Leu Gln Glu Thr Ser Ser Ile Val Ser Val Pro Ser Glu Ala Val Asp 210 215 220

Asn Val Glu Asn Val Val Ser Phe Asn Ala Lys Glu His Glu Asn Phe

225 230 235 240

Leu Glu Thr Ile Gln Glu Gln Thr Thr Glu Ser Ala Gly Gln Asp 245 250 255

Leu Ile Ser Ile Pro Lys Ala Val Glu Pro Met Glu Ile Asp Ser Glu 260 265 270

Glu Ser Glu Ser Asp Gly Ser Phe Ile Glu Val Gln Ser Val Ile Ser 275 280 285

Asp Glu Glu Leu Gln Ala Glu Phe Pro Glu Thr Ser Lys Pro Pro Ser 290 295 300

Glu Gln Gly Glu Glu Leu Val Gly Thr Arg Glu Gly Glu Ala Pro 305 310 315 320

Ala Glu Ser Glu Ser Leu Leu Arg Asp Asn Ser Glu Arg Asp Asp Val 325 330 335

Asp Gly Glu Pro Gln Glu Ala Glu Lys Asp Ala Glu Asp Ser Leu His 340 345 350

Glu Trp Gln Asp Ile Asn Leu Glu Glu Leu Glu Thr Leu Glu Ser Asn 355 360 365

Leu Leu Ala Gln Gln Asn Ser Leu Lys Ala Gln Lys Gln Gln Glu 370 375 380

Arg Ile Ala Ala Thr Val Thr Gly Gln Met Phe Leu Glu Ser Gln Glu 385 390 395 400

Leu Leu Arg Leu Phe Gly Ile Pro Tyr Ile Gln Ala Pro Met Glu Ala 405 410 415

Glu Ala Gln Cys Ala Ser Trp Thr 420

<210> 1019

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1019

Val Leu Leu Ile Thr Phe Leu Gly Glu Glu Lys Lys Cys Tyr Ser Cys
1 10 15

Lys Gln Met Tyr Ser Phe Gln Lys Glu Ala Thr Phe Leu Leu Pro Ser 20 25 30

Leu Phe Leu Val Ser Ser Pro Arg Leu Ala Ile Xaa Ile Gly Ile Val 35 40 45

Met Ala Ser Ile Leu Ser Leu Leu His Pro Tyr Leu Leu Cys Asp 50 55 60

Phe Ala Ala Pro Leu Ile Lys Glu Ala Glu Pro Pro Leu Pro Pro Ile 65 70 75 80

Gly Ala Gly Phe Glu Ser Asn Arg Met Lys 85 90

<210> 1020

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1020

Thr Arg Pro Ile Arg Pro Pro His Gln Ile Pro Val Asp Thr Leu Xaa 1 5 10 15

His Val Ile Asn Gln Thr Gly Gly Tyr Ser Asp Gly Leu Gly Gly Asn 20 25 30

Ser Leu Tyr Ser Pro His Asn Leu Asn Ala Asn Xaa Gly Trp Gln Asp 35 40 45

Ala Thr Thr Pro Ser Ser Val Thr Ser Pro Thr Glu Gly Pro Gly Ser 50 60

Val His Ser Asp Thr Ser Asn

65

70

<210> 1021

<211> 301

<212> PRT

<213> Homo sapiens

<400> 1021

Pro Thr Pro Pro Thr Pro Ile Arg Thr Ala Ala Gln Arg Arg Glu Ile
1 5 10 15

Trp Asp Phe Pro Gly Gln Ile Asp Phe Phe Asp Pro Thr Phe Asp Tyr
20 25 30

Glu Met Ile Phe Arg Gly Thr Gly Ala Leu Ile Phe Val Ile Asp Ser 35 40 45

Gln Asp Asp Tyr Met Glu Ala Leu Ala Arg Leu His Leu Thr Val Thr
50 55 60

Arg Ala Tyr Lys Val Asn Thr Asp Ile Asn Phe Glu Val Phe Ile His 65 70 75 80

Lys Val Asp Gly Leu Ser Asp Asp His Lys Ile Glu Thr Gln Arg Asp 85 90 95

Ile His Gln Arg Ala Asn Asp Asp Leu Ala Asp Ala Gly Leu Glu Lys
100 105 110

Ile His Leu Ser Phe Tyr Leu Thr Ser Ile Tyr Asp His Ser Ile Phe 115 120 125

Glu Ala Phe Ser Lys Val Val Gln Lys Leu Ile Pro Gln Leu Pro Thr 130 135 140

Leu Glu Asn Leu Leu Asn Ile Phe Ile Ser Asn Ser Gly Ile Glu Lys 145 150 155 160

Ala Phe Leu Phe Asp Val Val Ser Lys Ile Tyr Ile Ala Thr Asp Ser 165 170 175

Thr Pro Val Asp Met Gln Thr Tyr Glu Leu Cys Cys Asp Met Ile Asp 180 185 190

Val Val Ile Asp Ile Ser Cys Ile Tyr Gly Leu Lys Glu Asp Gly Ala 195 200 205

Gly Thr Pro Tyr Asp Lys Glu Ser Thr Ala Ile Ile Lys Leu Asn Asn 210 215 220

Thr Thr Val Leu Tyr Leu Lys Glu Val Thr Lys Phe Leu Ala Leu Val

225 230 235 240

Cys Phe Val Arg Glu Glu Ser Phe Glu Arg Lys Gly Leu Ile Asp Tyr 245 250 255

Asn Phe His Cys Phe Arg Lys Ala Ile His Glu Val Phe Glu Val Arg 260 265 270

Met Lys Val Val Lys Ser Arg Lys Val Gln Asn Arg Leu Gln Lys Lys 275 280 285

Lys Arg Ala Thr Pro Asn Gly Thr Pro Arg Val Leu Leu 290 295 300

<210> 1022

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1022

Thr Ala Asn Arg Gly Ser Ser Ala Ser Xaa Lys Ala Asp Ser Gly Leu
1 5 10 15

Ala Gln Ser Asp Gly Arg Asp Pro Pro Thr Leu Trp Gly Trp Ser Leu 20 25 30

His Leu Ala Leu 35

<210> 1023

<211> 173

<212> PRT

<213> Homo sapiens

<400> 1023

Ile Arg Gln Ser Ser Arg Glu Arg Ile Trp Arg Pro Pro Leu Trp Ile
1 5 10 15

Leu Ala Arg Pro Gly Ser Ala Val Ala Val Arg Ala Gly Phe Pro Thr 20 25 30

Pro Cys Arg Pro Pro Ser Leu Ser Ala Leu Ser Pro Ser Ala Ser Gln

35 40 45

Pro Cys Ser Arg Arg Arg Thr Gly Leu Ser Pro Gly Ser Trp Gly Trp 50 55 60

Pro Pro Ser Thr Arg Ser Ala Cys Phe Leu Thr Cys Leu Ser Ser Arg 65 70 75 80

Ser Tyr Arg Leu Gln Ile Gly His Phe Leu Cys Leu Val Ile Leu Val 85 90 95

Tyr Cys Ala Glu Tyr Ile Asn Glu Ala Ala Ala Met Asn Trp Arg Leu 100 105 110

Phe Ser Lys Tyr Gln Tyr Phe Asp Ser Arg Gly Met Phe Ile Ser Ile 115 120 125

Val Phe Ser Ala Pro Leu Leu Val Asn Ala Met Ile Ile Val Val Met 130 135 140

Trp Val Trp Lys Thr Leu Asn Val Met Thr Asp Leu Lys Asn Ala Gln 145 150 155 160

Glu Arg Arg Lys Glu Lys Lys Arg Arg Arg Lys Glu Asp 165 170

<210> 1024

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1024

Ala Trp Gly Ala Ala Arg Arg Gly Arg Gln Arg Pro Cys Pro Leu Leu 1 5 10 15

Ala Gly Arg Thr Glu Phe Trp Pro Xaa Cys Glu Gly Lys Ala Glu Ala 20 25 30

Cys Xaa Gly Xaa Trp Phe Lys Leu Xaa Gly Gln Gly Lys Gly Arg Gly 35 40 45

Glu Trp Phe Ser Arg Ser Arg Leu Cys Ser Arg Trp Thr Leu Glu
50 55 60

Asn Lys Gly Glu Ser Ser Arg Glu Gln 65 70

<210> 1025

<211> 171

<212> PRT

<213> Homo sapiens

<400> 1025

Leu Leu Pro Glu Thr Ala Leu Leu Asn Met Arg Ala Ala Pro Leu Leu 1 5 10 15

Leu Ala Arg Ala Ala Ser Leu Ser Leu Gly Phe Leu Phe Leu Leu Phe 20 25 30

Phe Trp Leu Asp Arg Ser Val Leu Ala Lys Glu Leu Lys Phe Val Thr 35 40 45

Leu Val Phe Arg His Gly Asp Arg Ser Pro Ile Asp Thr Phe Pro Thr
50 55 60

Asp Pro Ile Lys Glu Ser Ser Trp Pro Gln Gly Phe Gly Gln Leu Thr
65 70 75 80

Gln Leu Gly Met Glu Gln His Tyr Glu Leu Gly Glu Tyr Ile Arg Lys 85 90 95

Arg Tyr Arg Lys Phe Leu Asn Glu Ser Tyr Lys His Glu Gln Val Tyr 100 105 110

Ile Arg Ser Thr Asp Val Asp Arg Thr Leu Met Ser Ala Met Thr Asn 115 120 125

Leu Ala Ala Leu Phe Pro Pro Glu Gly Val Ser Ile Trp Asn Pro Ile

130 135 140

Leu Leu Trp Gln Pro Ile Pro Val His Thr Val Pro Leu Ser Glu Asp 145 150 155 160

Gln Leu Tyr Leu Thr Phe Gln Glu Leu Pro 165 170

<210> 1026

<211> 238

<212> PRT

<213> Homo sapiens

<400> 1026

Ala Asn Trp Asp Leu Glu Met Ile Leu Arg Cys Ser Ser Asn Asp Leu 1 5 10 15

Glu Leu Leu Gln Ala Glu His Gly Ile Leu Lys Ile Gly Glu Thr Asn 20 25 30

Lys Phe Ser Gly Tyr Pro Leu Tyr His Ser Val Tyr Glu Thr Tyr Glu
35 40 45

Leu Val Glu Lys Phe Tyr Asp Pro Met Phe Lys Tyr His Leu Thr Val 50 55 60

Ala Gln Val Arg Gly Gly Met Val Phe Glu Leu Ala Asn Ser Ile Val 65 70 75 80

Leu Pro Phe Asp Cys Arg Asp Tyr Ala Val Val Leu Arg Lys Tyr Ala 85 90 95

Asp Lys Ile Tyr Ser Ile Ser Met Lys His Pro Gln Glu Met Lys Thr 100 105 110

Tyr Ser Val Ser Phe Asp Ser Leu Phe Ser Ala Val Lys Asn Phe Thr 115 120 125

Glu Ile Ala Ser Lys Phe Ser Glu Arg Leu Gln Asp Phe Asp Lys Ser 130 135 140

Arg Ala Phe Ile Asp Pro Leu Gly Leu Pro Asp Arg Pro Phe Tyr Arg 165 170 175

His Val Ile Tyr Ala Pro Ser Ser His Asn Lys Tyr Ala Gly Glu Ser 180 185 190 Phe Pro Gly Ile Tyr Asp Ala Leu Phe Asp Ile Glu Ser Lys Val Asp 195 200 205

Pro Ser Lys Ala Trp Gly Glu Val Lys Arg Gln Ile Tyr Val Ala Ala 210 215 220

Phe Thr Val Gln Ala Ala Glu Thr Leu Ser Glu Val Ala 225 230 235

<210> 1027

<211> 132

<212> PRT

<213> Homo sapiens

<400> 1027

Gly Pro Thr Thr Lys Phe Ala Ala Arg Arg Gln Gly Val Leu Leu 1 5 10 15

Ile Thr Met Asn Val Leu Leu Gly Ser Val Val Ile Phe Ala Thr Phe 20 25 30

Val Thr Leu Cys Asn Ala Ser Cys Tyr Phe Ile Pro Asn Glu Gly Val
35 40 45

Pro Gly Asp Ser Thr Arg Lys Cys Met Asp Leu Lys Gly Asn Lys His 50 55 60

Pro Ile Asn Ser Glu Trp Gln Thr Asp Asn Cys Glu Thr Cys Thr Cys 65 70 75 80

Tyr Glu Thr Glu Ile Ser Cys Cys Thr Leu Val Ser Thr Pro Val Gly 85 90 95

Tyr Asp Lys Asp Asn Cys Gln Arg Ile Phe Lys Lys Glu Asp Cys Lys
100 105 110

Tyr Ile Val Val Glu Lys Lys Asp Pro Lys Lys Thr Cys Ser Val Ser 115 120 125

Glu Trp Ile Ile 130

<210> 1028

<211> 116

<212> PRT

<213> Homo sapiens

<220> <221> SITE <222> (41) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (111) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1028 Ser Leu Thr Ser Cys Ile Leu Glu Ile Leu Gln Ser Leu Ser Tyr Ser Tyr Gln Asn Ser Cys Arg Pro Leu Thr Pro Asp Ser Pro Cys Leu Gln 25 Cys Pro Pro Ala Cys Arg Gly Gly Xaa Val Thr Ala Thr Leu Ser His 35 40 45 Gln Leu Phe Ser Ile Cys Arg Pro Ser Trp Gly Arg Val Pro Ser Ser 50 60 Cys Ser Pro Cys Leu Trp Glu Lys Ser His Val Leu Phe Ile Ser Pro 65 70 75 His Cys Thr Leu Ser Leu Thr Leu Asp Tyr Asn Ser Ser Glu Phe Asp 85 90 Leu His Leu Leu Asp Lys Pro Gly Thr Val Leu Gly Ile Met Xaa Thr 105 Ile Arg Gln Ile 115 <210> 1029 <211> 216 <212> PRT <213> Homo sapiens <400> 1029

20 25 30

Phe Ile Ala Thr Leu Gly Lys Leu Ser Gly Leu His Gly Gln Asp Leu

Thr Leu Lys Ser Glu Glu Phe Gln Lys Arg Leu His Pro Tyr Lys Asp

10

15

5

Phe Gly Ile Trp Ser Lys Val Tyr Asp Pro Leu Tyr Cys Glu Ser Val

35 40 45

His Asn Phe Thr Leu Pro Ser Trp Ala Thr Glu Asp Thr Met Thr Lys
50 55 60

Leu Arg Glu Leu Ser Glu Leu Ser Leu Leu Ser Leu Tyr Gly Ile His
65 70 75 80

Lys Gln Lys Glu Lys Ser Arg Leu Gln Gly Gly Val Leu Val Asn Glu 85 90 95

Ile Leu Asn His Met Lys Arg Ala Thr Gln Ile Pro Ser Tyr Lys Lys
100 105 110

Leu Ile Met Tyr Ser Ala His Asp Thr Thr Val Ser Gly Leu Gln Met
115 120 125

Ala Leu Asp Val Tyr Asn Gly Leu Leu Pro Pro Tyr Ala Ser Cys His 130 135 140

Leu Thr Glu Leu Tyr Phe Glu Lys Gly Glu Tyr Phe Val Glu Met Tyr 145 150 155 160

Tyr Arg Asn Glu Thr Gln His Glu Pro Tyr Pro Leu Met Leu Pro Gly
165 170 175

Cys Ser Pro Ser Cys Pro Leu Glu Arg Phe Ala Glu Leu Val Gly Pro 180 185 190

Val Ile Pro Gln Asp Trp Ser Thr Glu Cys Met Thr Thr Asn Ser His 195 200 205

Gln Gly Thr Glu Asp Ser Thr Asp 210 215

<210> 1030

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1030

His His Ala Trp Leu Ile Phe Leu Ile Xaa Ile Phe Ser Arg Asp Lys
1 5 10 15

Val Ala Leu Cys Cys Pro Gly Trp Tyr Gly Thr Pro Val Leu Lys Arg 20 25 30

Ser Ser Cys Leu Gly Phe Pro Lys Cys 35 40

<210> 1031

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1031

Pro Gly Trp Ser Gln Ser Xaa Gly Leu Arg Pro Ser Phe His Leu Ile
1 5 10 15

Leu Pro Lys Asn Trp Asp Tyr Arg His Glu Gln Leu His Leu Val His
20 25 30

Met Leu Leu Ile Val Glu Glu Val Lys Gly Gln 35 40

<210> 1032

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1032

Gln Gly Phe Trp His Gln Leu Glu Ile Leu Trp Met Asp Val Leu Pro 1 5 10 15

Trp Ser Phe Tyr Phe Asn Val Leu Thr Thr Tyr Asp Ser Ser Ile Cys
20 25 30

Ser Ile Asn Tyr Ile His Tyr His Ser Asn Ser His His Leu Ile Cys
35 40 45

Ile Xaa Tyr Leu Ile Leu Pro Ser Asn Tyr Gly Ile Ser Asp Leu

50 55 60

<210> 1033

<211> 63

<212> PRT

<213> Homo sapiens

<400> 1033

Lys Leu Cys Met Lys Thr Gly Gly Lys His Ser Val Ile Arg Tyr Phe 1 5 10 15

Ser Asn Ile Lys Thr Thr Lys Thr Asn Asp Lys Asn Val Tyr Phe Tyr
20 25 30

Thr Pro Ala Tyr Arg Val Ser Phe Arg Asp Val Tyr Glu Tyr Leu Asn 35 40 45

Leu Leu Ile Ser Val Leu Met Lys Ala Glu Leu Asn Arg Glu Ser 50 55 60

<210> 1034

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1034

Val Asn Leu Ala Cys Gly Ala Pro Leu Lys Cys Glu Asp Leu Ala Xaa l 5 10 15

Trp Leu Lys Ile Lys Leu Gly Phe Val Leu Asn Ile Leu Ala Gly Pro
20 25 30

Ile Ile His Lys Lys Arg Gly His Ser Pro Phe Ala Arg Leu Leu Asn 35 40 45

Glu Leu His Ser Phe Cys Thr Trp Lys Cys Leu Phe Ser His Lys Lys 50 55 60

Asn Asn Ser Tyr Asn Leu Ile Ser Leu Val Pro Tyr Gln Gln Lys Lys
65 70 75 80

Ser Gln Glu Thr Ile Met Lys Thr Leu Val Ser Ser Leu Gly Asp Tyr 85 90 95

Ile Met Leu Xaa Ser Leu Ile Ile Xaa Leu Tyr Leu Asn Lys Tyr Ile 100 105 110

Phe

<210> 1035

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1035

Gly Leu Arg Asp Leu Asp Ser Asn Pro Arg Ala Leu Ser Cys Tyr Ser

1 10 15

Gly Val Ser Thr Val Arg Xaa Gly Pro Gly Ala Leu Ser His His Leu
20 25 30

Pro Arg Pro Arg Asp His His Pro Leu Lys Arg Gly Pro Ser Pro Leu 35 40 45

Ser Thr Pro Ser Arg Asp Pro Ala Leu Gly Cys Ser Arg Leu Thr Ala 50 55 60

His Gly Val Leu Phe Trp Ala Thr Ala Ala Arg Ala Pro Gly Arg Gly 65 70 75 80

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Xaa Gly Thr Pro Glu Asn Thr Pro Leu Phe Met Val Leu Cys Pro Phe 85 90 95

Ile Arg Arg Leu Leu Lys Asn Trp Ala Val Cys Lys Ala Asn Pro Ala
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100 105 110

Pro Cys Pro Ser Arg Phe Ser Glu Arg Gly Val Pro Trp Glu Trp Ser 115 120 125

Cys Ser Pro His Gly Ser Thr Thr Phe Pro Val Pro Arg Cys His 130 135 140

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<210> 1036
<211> 122
<212> PRT
<213> Homo sapiens
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<220> <221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1036

Glu His Ile Trp Leu Ser Ile Trp Asp Arg Pro Pro Arg Ser Cys Phe
1 5 10 15

Thr Arg Ile Gln Arg Ala Thr Cys Cys Val Leu Leu Ile Cys Leu Phe
20 25 30

Leu Gly Ala Asn Ala Val Trp Tyr Gly Ala Val Gly Asp Ser Ala Tyr 35 40 45

Ser Thr Gly Xaa Val Ser Arg Leu Xaa Pro Leu Ser Val Asp Thr Val 50 55 60

```
Ala Val Gly Leu Val Ser Ser Val Val Val Tyr Pro Val Tyr Leu Ala
 65
                      70
                                          75
Xaa Leu Phe Leu Phe Xaa Met Ser Arg Ser Lys Val Ile Asn Thr Leu
                                      90
Ala Asp His Arg His Arg Gly Thr Asp Phe Gly Gly Ser Pro Trp Leu
Leu Ile Ile Asn Cys Val Ser Glu Lys Leu
                             120
<210> 1037
<211> 29
<212> PRT
<213> Homo sapiens
<400> 1037
Thr Pro Gly Leu Lys Gln Ser Phe Cys Leu Gly Pro Pro Lys Cys Trp
                                      10
                                                          15
Asp Cys Gly His Glu Leu Leu Cys Pro Ala Ser Met Phe
                                 25
<210> 1038
<211> 104
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids
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His Lys Pro Trp Leu Arg Lys Gly His Ala Ser Pro Ser Arg Arg Met 20 25 30

Glu Thr Ala Arg Gly Thr Gly Arg Asn Gly Leu Ser Ala Leu Asn His

<400> 1038

Thr Pro Ile Arg Asp Pro Gln Arg Arg Cys Met Ser Ile Leu Ala Pro 35 40 45

Arg Ala Val Met Gln Pro Ala Arg Ser Gln Gly Glu Gly Thr Gln Lys 50 55 60

Pro Gly Met Leu Ala Lys Gly Val Lys Glu Thr Phe Glu Leu Phe Thr
65 70 75 80

Ala Cys Ser Asn Tyr Val Lys Xaa Thr Pro Leu Asn Lys Ile Trp Ser 85 90 95

Met Phe Val Xaa Leu Tyr Leu Ile 100

<210> 1039

<211> 156

<212> PRT

<213> Homo sapiens

<400> 1039

Gly His Met Glu Leu Ala Met Asp Asn Ser Tyr Ala Phe Asn Gln Arg

1 10 15

Ser Thr Cys Asn Gly Ile Pro Ser Glu Lys Lys Asn Asn Phe Leu Val 20 25 30

Ser Glu Asp His Gly Gln Lys Ile Leu Ser Val Leu Gln Asn Phe Arg 35 40 45

Glu Gln Asn Val Phe Tyr Asp Phe Lys Ile Ile Met Lys Asp Glu Ile
50 55 60

Ile Pro Cys His Arg Cys Val Leu Ala Ala Cys Ser Asp Phe Phe Arg
65 70 75 80

Ala Met Phe Glu Val Asn Met Lys Glu Arg Asp Asp Gly Ser Val Thr

Ile Thr Asn Leu Ser Ser Lys Ala Val Lys Ala Phe Leu Asp Tyr Ala
100 105 110

Tyr Thr Gly Lys Thr Lys Ile Thr Asp Asp Asn Val Glu Met Phe Phe 115 120 125

Gln Leu Ser Ser Phe Leu Gln Val Ser Phe Leu Ser Lys Ala Cys Ser 130 135 140

Asp Phe Leu Ile Lys Ser Ile Asn Leu Glu Lys Lys

145 150 155

<210> 1040

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1040

Pro Ser Pro Cys Pro Cys Ser Cys Ala Trp Val Arg Trp Pro Arg Arg

1 10 15

Thr Pro Pro Ser Arg Thr Thr Arg Ala Arg Thr His Gln Xaa Arg Asp 20 25 30

Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
35 40 45

Arg Gln Arg Tyr Gly Lys Arg Ser Ser Pro Glu Thr Leu Ile Ser Asp 50 55 60

Leu Leu Met Arg Glu Ser Thr Glu Asn Val Pro Arg Thr Arg Leu Glu 65 70 75 80

Asp Pro Ala Met Trp 85

<210> 1041

<211> 234

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1041

Leu Gly Gln Tyr Gln Pro Ala Arg Glu Glu Ile Ser Lys Asp Leu Arg
1 5 10 15

Ala Thr Leu Asn Ala Phe Leu Tyr His Met Gly Gln His Ser Asn Lys
20 25 30

Phe Met Leu Val Leu Ala Ser Asn Leu Pro Glu Gln Phe Asp Cys Ala 35 40 45

Ile Asn Ser Arg Ile Asp Val Met Val His Phe Asp Leu Pro Gln Xaa 50 55 60

Glu Glu Arg Glu Arg Leu Val Arg Leu His Phe Asp Asn Cys Val Leu 65 70 75 80

Lys Pro Ala Thr Glu Gly Lys Arg Arg Leu Lys Leu Ala Gln Phe Asp 85 90 95

Tyr Gly Arg Lys Cys Ser Glu Val Ala Arg Leu Thr Glu Gly Met Ser 100 105 110

Gly Arg Glu Ile Ala Gln Leu Ala Val Ser Trp Gln Ala Thr Ala Tyr 115 120 125

Ala Ser Lys Asp Gly Val Leu Thr Glu Ala Met Met Asp Ala Cys Val 130 135 140

Gln Asp Ala Val Gln Gln Tyr Arg Gln Lys Met Arg Trp Leu Lys Ala 145 150 155 160

Glu Gly Pro Gly Arg Gly Val Glu His Pro Leu Ser Gly Val Gln Gly
165 170 175

Glu Thr Leu Thr Ser Trp Ser Leu Ala Thr Asp Pro Ser Tyr Pro Cys
180 185 190

Leu Ala Gly Pro Cys Thr Phe Arg Ile Cys Ser Trp Met Gly Thr Gly 195 200 205

Leu Cys Pro Gly Pro Leu Ser Pro Arg Met Ser Cys Gly Gly Gly Arg 210 215 220

Pro Phe Cys Pro Pro Gly His Pro Leu Leu 225 230

<210> 1042

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1042

Ala Asn Leu Met Lys Cys Lys Val Gln Ala Gly Met Ile Xaa Ser Val 1 5 10 15

Cys Lys Asp Lys Ser Phe Asp Asp Glu Glu Ser Val Asp Gly Asn Arg
20 25 30

Pro Ser Ser Ala Ala Ser Ala Phe Lys Val Pro Ala Leu Lys His Pro 35 40 45

Glu Ile Leu Pro Thr Val Gln Gly Ser Trp Phe Ser Arg Trp Pro 50 55 60

<210> 1043

<211> 64

<212> PRT

<213> Homo sapiens

<400> 1043

Gln Leu Arg Ser Arg Ala Gly Leu Leu Ser Ser Thr Val Arg Ala Arg
1 5 10 15

Asn Trp Pro Gln Asn Pro Gln Ser Gln Pro Trp Gly Pro Leu Gly Pro 20 25 30

Gln Thr Pro Val Phe Ser Phe Cys Val Ala Ser Trp Phe Pro Gly Val
35 40 45

Leu Phe Tyr Ala Ala Ser Gly Val Arg Ser Ser Ala Phe Asn Leu Phe 50 55 60

<210> 1044

<211> 97

<212> PRT

<213> Homo sapiens

<400> 1044

Ala Ser Arg Ser Leu Pro Thr Ala Ala Val His Val Arg Leu Leu Pro 1 5 10 15

Leu Cys Ala Glu Arg Gln Glu Asp His Glu Asn Asp Pro Leu Ser Glu 20 25 30

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Leu Gln Arg Gln Ile Ala Gln Pro Glu Met Arg Cys Thr Ile Arg Leu 35 40 45
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Leu Asp Asp Ser Glu Ile Ser Cys His Ile Gln Arg Glu Thr Lys Gly 50 55 60

Gln Phe Leu Ile Asp His Ile Cys Asn Tyr Tyr Ser Leu Leu Glu Lys
65 70 75 80

Asp Tyr Phe Gly Ile Arg Tyr Val Asp Pro Glu Lys Gln Arg His Trp 85 90 95

Ala

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<210> 1045
```

<211> 43

<212> PRT

<213> Homo sapiens

<400> 1045

Thr Leu Ile Phe Pro Pro Leu Arg Ile Ile Asn Phe Leu Ser Phe Tyr
1 5 10 15

His Ile Cys Phe Arg Ser Phe Phe Phe Leu Lys Lys Ser Ile Thr Asp 20 25 30

Leu Ala Lys Val Pro Phe Asp Gln Tyr Pro Thr 35 40

<210> 1046

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (186) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (209) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (212) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (214) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1046 Arg Ser Gly Arg Leu Arg Leu Ser Leu Tyr Cys Gly Ala Gly Gln Gly 10 Val Arg Ala Gly Arg Gly Thr Gly Thr Pro Ala Val Xaa Gly Arg Leu 25 Glu Ile Met Glu Gly Lys Trp Leu Leu Cys Met Leu Leu Val Leu Gly Thr Ala Ile Val Glu Ala His Asp Gly His Asp Asp Asp Val Ile Asp 55 60 Ile Glu Asp Asp Leu Asp Asp Val Ile Glu Glu Val Glu Asp Ser Lys 65 70 Pro Asp Thr Thr Ala Pro Pro Ser Ser Pro Lys Val Thr Tyr Lys Ala 85 90 95 Pro Val Pro Thr Gly Glu Val Tyr Phe Ala Asp Ser Phe Asp Arg Gly 100 110 Thr Leu Ser Gly Trp Ile Leu Ser Lys Ala Lys Lys Asp Asp Thr Asp 120 125 Asp Glu Ile Ala Lys Tyr Asp Gly Lys Trp Glu Val Glu Glu Met Lys Glu Ser Lys Leu Pro Gly Asp Lys Gly Leu Val Leu Met Ser Arg Ala 145 150 155 Lys His His Ala Ile Ser Ala Lys Leu Asn Lys Pro Phe Leu Phe Asp

170

175

165

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Thr Lys Pro Leu Ile Xaa Gln Tyr Glu Xaa Asn Phe Gln Asn Gly Ile
180 185 190
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Glu Cys Gly Gly Ala Tyr Val Lys Leu Leu Ser Lys Thr Pro Glu Leu 195 200 205

Xaa Leu Asp Xaa Val Xaa Arg Thr Ile Asn Cys Leu His 210 215 220

<210> 1047

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1047

Gly Ile Pro Pro His Phe Cys Gly Phe Phe Pro Val Val Asp Asp Gln
1 5 10 15

Gly Trp Asn Leu Gln Ser Met Gly Pro Asp Phe Leu Pro Ser Ser Gln
20 25 30

Ile Asp Ser Ala Ala Ser His Leu Cys Ser Ala Pro Val Ala Leu Lys
35 40 45

Cys Asn Arg Asn His His Pro Arg Thr Met Gly Ser Met Pro Val Gly
50 55 60

Lys Ala Gln Val Arg Ser Leu Ser Ser Gln His Ile Ala Val Ala Gly
65 70 75 80

Thr Trp

<210> 1048

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1048

Pro Gly Ser Pro Asp Gln Arg Pro Thr Pro Gln Gly Glu Phe Ile Leu
1 5 10 15

Cys Gln Gln Ser Phe Pro Ser Ser Glu Ala Ser His Pro His Pro 20 25 30

Arg Arg Gln Gly Lys Gln Ala Arg Gly Gly Gln Glu Ser Ser Gln Leu
35 40 45

Ser Glu Ala Ala Pro Pro Ala Pro Lys His Leu Pro Cys Ser Gln Leu 50 55 60

Xaa Xaa Gln Leu Leu Pro Ala Ala Lys Xaa Thr Ala Ala Phe Arg Leu 65 70 75 80

Thr Ser Met Pro Leu

85

<210> 1049

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1049

Ser Pro Cys Arg Glu Glu Ser Gln Gln Ile Ile Ser Lys Leu Glu Asn 1 5 10 15

Gln Glu Ile Thr Val Ile Ile Arg Asp Ile Trp Gly Gly Tyr Lys Tyr
20 25 30

Gln Asn Lys Lys Ile Lys Glu Met Lys Ile Val Val Ser Gly Glu Leu
35 40 45

Lys Ser Lys Ile Gln Arg Cys Glu Ala Asp Leu Ile Tyr Tyr Leu Thr
50 55 60

Cys Ile Leu Phe Ile Ala Gln Tyr Ser Val Phe
65 70 75

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<210> 1050
<211> 43
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids
Gly Lys Lys Ile Lys Lys Leu Ala Ser Ala Xaa Arg Gly Gly Ser Leu
                                                           15
Pro Val Ile Pro Ala Leu Ser Ala Ala Glu Ala Ser Gly Ser Leu Glu
             20
                                  25
Val Xaa Ser Ser Lys Thr Ser Leu Gly Gln Thr
         35
<210> 1051
<211> 341
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1051
Gly Pro Gln Glu Met Thr Ala Gly Gly Gln Ala Glu Ala Glu Gly Ala
Gly Gly Glu Pro Gly Ala Ala Arg Leu Pro Ser Arg Val Ala Arg Leu
             20
                                 25
Leu Ser Ala Leu Phe Tyr Gly Thr Cys Ser Phe Leu Ile Val Leu Val
         35
                                                  45
Asn Lys Ala Leu Leu Thr Thr Tyr Gly Phe Pro Ser Pro Ile Phe Leu
     50
                         55
                                              60
```

Gly Ile Gly Gln Met Ala Ala Thr Ile Met Ile Leu Tyr Val Ser Lys

Leu Asn Lys Ile Ile His Phe Pro Asp Phe Asp Lys Lys Ile Pro Val Lys Leu Phe Pro Xaa Pro Leu Leu Tyr Val Gly Asn His Ile Ser Gly Leu Ser Ser Thr Ser Lys Leu Ser Leu Pro Met Phe Thr Val Leu Arg Lys Phe Thr Ile Pro Leu Thr Leu Leu Glu Thr Ile Ile Leu Gly Lys Gln Tyr Ser Leu Asn Ile Ile Leu Ser Val Phe Ala Ile Ile Leu Gly Ala Phe Ile Ala Ala Gly Ser Asp Leu Ala Phe Asn Leu Glu Gly Tyr Ile Phe Val Phe Leu Asn Asp Ile Phe Thr Ala Ala Asn Gly Val Tyr Thr Lys Gln Lys Met Asp Pro Lys Glu Leu Gly Lys Tyr Gly Val Leu Phe Tyr Asn Ala Cys Phe Met Ile Ile Pro Thr Leu Ile Ile Ser Val Ser Thr Gly Asp Leu Gln Gln Ala Thr Glu Phe Asn Gln Trp Lys Asn Val Val Phe Ile Leu Gln Phe Leu Leu Ser Cys Phe Leu Gly Phe Leu Leu Met Tyr Ser Thr Val Leu Cys Ser Tyr Tyr Asn Ser Ala Leu Thr Thr Ala Val Val Gly Ala Ile Lys Asn Val Ser Val Ala Tyr Ile Gly Ile Leu Ile Gly Gly Asp Tyr Ile Phe Ser Leu Leu Asn Phe Val Gly Leu Asn Ile Cys Met Ala Gly Gly Leu Arg Tyr Ser Phe Leu Thr Leu Ser Ser Gln Leu Lys Pro Lys Pro Val Gly Glu Glu Asn Ile Cys

Leu Asp Leu Lys Ser

340

<210> 1052

<211> 85

<212> PRT

<213> Homo sapiens

<400> 1052

Pro Ala Ala Arg Ala Ala Thr Asp Ser Val Ser Ala Ile Phe Asp Lys

1 10 15

Gly Lys Lys Val Arg Glu Ser Phe Gln Ala Leu Gly Arg Ile Ile Phe 20 25 30

Phe Gln Asp Ala Val Phe Arg Thr Phe Val Ile Lys His Thr Ala Gln 35 40 45

Val Ile Thr Gly Ile Asp Ser Asp Ile Arg His Leu Ser Leu Ala Leu 50 55 60

Leu Lys Asn Gly Gly Asn Val Ile Ser Trp Ala Gly Val Gly Cys Asn 65 70 75 80

Pro Glu Val Pro Leu

85

<210> 1053

<211> 724

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (680)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1053

Val Asp Ser Glu Ser Ala Ser Val Val Gly Lys Arg Pro Pro Phe His

1 5 10 15

Gly Thr Pro Ser Thr Met Ser Ser Pro Ala Ser Thr Pro Ser Arg Arg 20 25 30

- Gly Ser Arg Arg Gly Arg Ala Thr Pro Ala Gln Thr Pro Arg Ser Glu
  35 40 45
- Asp Ala Arg Ser Ser Pro Ser Gln Arg Arg Gly Glu Asp Ser Thr 50 55 60
- Ser Thr Gly Glu Leu Gln Pro Met Pro Thr Ser Pro Gly Val Asp Leu 65 70 75 80
- Gln Ser Pro Ala Ala Gln Xaa Val Leu Phe Ser Ser Pro Pro Gln Met 85 90 95
- His Ser Ser Ala Ile Pro Leu Asp Phe Asp Val Ser Ser Pro Leu Thr 100 105 110
- Tyr Gly Thr Pro Ser Ser Arg Val Glu Gly Thr Pro Arg Ser Gly Val 115 120 125
- Arg Gly Thr Pro Val Arg Gln Arg Pro Asp Leu Gly Ser Ala Gln Lys 130 135 140
- Val Ala Ser Glu Gln Ser Leu Gly Gln Lys Leu Val Ile Trp Gly Thr 165 170 175
- Asp Val Asn Val Ala Ala Cys Lys Glu Asn Phe Gln Arg Phe Leu Gln 180 185 190
- Arg Phe Ile Asp Pro Leu Ala Lys Glu Glu Glu Asn Val Gly Ile Asp 195 200 205
- Ile Thr Glu Pro Leu Tyr Met Gln Arg Leu Gly Glu Ile Asn Val Ile 210 215 220
- Gly Glu Pro Phe Leu Asn Val Asn Cys Glu His Ile Lys Ser Phe Asp 225 230 235 240
- Lys Asn Leu Tyr Arg Gln Leu Ile Ser Tyr Pro Gln Glu Val Ile Pro 245 250 255
- Thr Phe Asp Met Ala Val Asn Glu Ile Phe Phe Asp Arg Tyr Pro Asp 260 265 270
- Ser Ile Leu Glu His Gln Ile Gln Val Arg Pro Phe Asn Ala Leu Lys 275 280 285
- Thr Lys Asn Met Arg Asn Leu Asn Pro Glu Asp Ile Asp Gln Leu Ile 290 295 300

Thr 305		Ser	Gly	Met	Val 310	Ile	Arg	Thr	Ser	Gln 315	Leu	Ile	Pro	Glu	Met 320
Gln	Glu	Ala	Phe	Phe 325	Gln	Cys	Gln	Val	Cys 330	Ala	His	Thr	Thr	Arg 335	Val
Glu	Met	Asp	Arg 340	Gly	Arg	Ile	Ala	Glu 345	Pro	Ser	Val	Cys	Gly 350	Arg	Cys
His	Thr	Thr 355	His	Ser	Met	Ala	Leu 360	Ile	His	Asn	Arg	Ser 365	Leu	Phe	Ser
Asp	Lys 370	Gln	Met	Ile	Lys	Leu 375	Gln	Glu	Ser	Pro	Glu 380	Asp	Met	Pro	Ala
Gly 385	Gln	Thr	Pro	His	Thr 390	Val	Ile	Leu	Phe	Ala 395	His	Asn	Asp	Leu	Val 400
Asp	Lys	Val	Gln	Pro 405	Gly	Asp	Arg	Val	Asn 410	Val	Thr	Gly	Ile	Tyr 415	Arg
Ala	Val	Pro	Ile 420	Arg	Val	Asn	Pro	Arg 425	Val	Ser	Asn	Val	Lys 430	Ser	Val
Tyr	Lys	Thr 435	His	Ile	Asp	Val	Ile 440	His	Tyr	Arg	Lys	Thr 445	Asp	Ala	Lys
Arg	Leu 450	His	Gly	Leu	Asp	Glu 455	Glu	Ala	Glu	Gln	Lys 460	Leu	Phe	Ser	Glu
Lys 465	Arg	Val	Glu	Leu	Leu 470	Lys	Glu	Leu	Ser	Arg 475	Lys	Pro	Asp	Ile	Tyr 480
Glu	Arg	Leu		Ser 485	Ala	Leu	Ala		Ser 490	Ile	Tyr	Glu	His	Glu 495	Asp
Ile	Lys	Lys	Gly 500	Ile	Leu	Leu	Gln	Leu 505	Phe	Gly	Gly	Thr	Arg 510	Lys	Asp
Phe	Ser	His 515	Thr	Gly	Arg	Gly	Lys 520	Phe	Arg	Ala	Glu	Ile 525	Asn	Ile	Leu
Leu	Cys 530	Gly	Asp	Pro	Gly	Thr 535	Ser	Lys	Ser	Gln	Leu 540	Leu	Gln	Tyr	Val
Tyr 545	Asn	Leu	Val	Pro	Arg 550	Gly	Gln	туг	Thr	Ser 555	Gly	Lys	Gly	Ser	Ser 560
Ala	Val	Gly	Leu	Thr 565	Ala	Tyr	Val	Met	Lys 570	Asp	Pro	Glu	Thr	Arg 575	Gln

Leu Val Leu Gln Thr Gly Ala Leu Val Leu Ser Asp Asn Gly Ile Cys 580 585 590

Cys Ile Asp Glu Phe Asp Lys Met Asn Glu Ser Thr Arg Ser Val Leu 595 600 605

His Glu Val Met Glu Gln Gln Thr Leu Ser Ile Ala Lys Ala Gly Ile 610 615 620

Ile Cys Gln Leu Asn Ala Arg Thr Ser Val Leu Ala Ala Ala Asn Pro 625 630 635 640

Ile Glu Ser Gln Trp Asn Pro Lys Lys Thr Thr Ile Glu Asn Ile Gln 645 650 655

Leu Pro His Thr Leu Leu Ser Arg Phe Asp Leu Ile Phe Leu Met Leu 660 665 670

Asp Pro Gln Asp Glu Ala Tyr Xaa Gln Ala Ser Gly Ser Pro Pro Gly 675 680 685

Arg Thr Val Leu Pro Glu Arg Gly Ala Gly Arg Gly Gly Ala Pro Gly 690 695 700

His Gly Gly Ala Lys Gly Leu His Cys Leu Arg Ala Gln His His 705 710 715 720

Ala Ala Ala Lys

<210> 1054

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1054

Leu Leu Cys Phe Tyr Glu Pro Arg Cys Ser Arg Lys Trp Xaa Gln Arg
1 5 10 15

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His Ala Ser Xaa Arg Ser Pro Tyr Pro Ala Phe Val Pro Ala Val Pro 20 25 30
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Lys Ser Leu Ala Arg Ile Leu His Leu Gly Lys Lys Val Leu Asn Ala 35 40 45

Asn Val Thr Pro 50

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<210> 1055
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<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (207)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1055

Arg Arg Gly Phe Gly Gly Val Arg Ala Ser Glu Ala Cys Gly Leu Arg
1 5 10 15

Arg Arg Ala Gly Phe Gly Gly Val Arg Ala Ser Gly Ala Met Gly Thr 20 25 30

Pro Pro Gly Leu Gln Thr Asp Cys Glu Ala Leu Leu Ser Arg Phe Gln
35 40 45

Glu Thr Asp Ser Val Arg Phe Glu Asp Phe Thr Glu Leu Trp Arg Asn 50 55 60

Met Lys Phe Gly Thr Ile Phe Cys Gly Arg Met Arg Asn Leu Glu Lys 65 70 75 80

Asn Met Phe Thr Lys Glu Ala Leu Ala Leu Ala Trp Arg Tyr Phe Leu 85 90 95

Pro Pro Tyr Thr Phe Gln Ile Arg Val Gly Ala Leu Tyr Leu Leu Tyr 100 105 110

Gly Leu Tyr Asn Thr Gln Leu Cys Gln Pro Lys Gln Lys Ile Arg Val 115 120 125 Ala Leu Lys Asp Trp Asp Glu Val Leu Lys Phe Gln Gln Asp Leu Val
130 135 140

Asn Ala Gln His Phe Asp Ala Ala Tyr Ile Phe Arg Lys Leu Arg Leu 145 150 155 160

Asp Arg Ala Phe His Phe Thr Ala Met Pro Lys Leu Leu Ser Tyr Arg 165 170 175

Met Lys Lys Ile His Arg Ala Glu Val Thr Glu Glu Phe Lys Asp 180 185 190

Pro Ser Asp Arg Val Met Lys Leu Ile Thr Ser Asp Xaa Leu Xaa Glu 195 200 205

Met Leu Asn Gly His Asp His Tyr Gln Asn Met Asn Met 210 215 220

<210> 1056

<211> 59

<212> PRT

<213> Homo sapiens

<400> 1056

Lys Ala Val Arg Ser Met Leu Leu Ser Ser Leu Arg Glu Asn Phe Leu 1 5 10 15

Asn Asn Thr Arg Lys Arg Lys Ile Gly Leu Phe Ser Leu Leu Val Leu 20 25 30

Ser Ile Leu Ser Ser Leu Gln Gly Arg Val Ala Lys Leu Trp Gly Leu 35 40 45

Asn Pro Glu Gly Gly Leu Ser Gly His Gln Thr 50 55

<210> 1057

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (192)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1057

Ser Leu Pro Trp Arg Val Pro Arg Ser Met Glu Thr Phe Asp Pro Thr
1 5 10 15

Glu Leu Pro Glu Leu Leu Lys Leu Tyr Tyr Arg Arg Leu Phe Pro Tyr
20 25 30

Ser Gln Tyr Tyr Arg Trp Leu Asn Tyr Gly Gly Val Ile Lys Asn Tyr 35 40 45

Phe Gln His Arg Glu Phe Ser Phe Thr Leu Lys Asp Asp Ile Tyr Ile 50 55 60

Arg Tyr Gln Ser Phe Asn Asn Gln Ser Asp Leu Glu Lys Glu Met Gln 65 70 75 80

Lys Met Asn Pro Tyr Lys Ile Asp Ile Gly Ala Val Tyr Ser His Arg 85 90 95

Pro Asn Gln His Asn Thr Val Lys Leu Gly Ala Phe Gln Ala Gln Glu 100 105 110

Lys Glu Leu Val Phe Asp Ile Asp Met Thr Asp Tyr Asp Asp Val Arg 115 120 125

Arg Cys Cys Ser Ser Ala Asp Ile Cys Pro Lys Cys Trp Thr Leu Met 130 135 140

Thr Met Ala Ile Arg Ile Ile Asp Arg Ala Leu Lys Glu Asp Phe Gly
145 150 155 160

Phe Lys His Arg Leu Trp Val Tyr Ser Gly Arg Arg Gly Val His Cys 165 170 175

Trp Val Cys Asp Glu Ser Val Arg Asn Cys Leu Leu Gln Tyr Val Xaa 180 185 190

Gly

<210> 1058

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1058 Asp Glu Asp Asn Glu Lys Glu Lys Arg Asp Ser Leu Gly Asn Glu Glu Ser Val Asp Lys Thr Ala Cys Glu Cys Val Arg Ser Pro Arg Glu Ser 20 25 Leu Asp Asp Leu Phe Gln Ile Cys Ser Pro Cys Ala Ile Ala Ser Gly 35 40 Leu Arg Xaa Thr Trp Leu Asn 50 <210> 1059 <211> 205 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (128) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (205) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1059 Arg Val Ser Leu Val Val Thr Glu Thr Val Asp Ala Gly Leu Phe Gly 10 Glu Gly Ile Val Glu Ser Leu Ile His Ala Trp Glu His Leu Leu 20 25 Gln Pro Lys Thr Lys Gly Glu Ser Ala Asn Cys Glu Lys Tyr Gly Lys 40 Val Ile Pro Ala Ser Ala Val Ile Phe Gly Met Ala Val Glu Cys Ala 50 55 Glu Ile Arg Arg His His Arg Val Gly Ile Lys Asp Ile Ala Gly Ile 65 70 His Leu Pro Thr Asn Val Lys Phe Gln Ser Pro Ala Tyr Ser Ser Val

90

Asp Thr Glu Glu Thr Ile Glu Pro Tyr Thr Thr Glu Lys Met Ser Arg

95

85

100 105 110

Val Pro Gly Gly Tyr Leu Ala Leu Thr Glu Cys Phe Glu Ile Met Xaa 115 120 125

Val Asp Phe Asn Asn Leu Gln Glu Leu Lys Ser Leu Ala Thr Lys Lys 130 135 140

Pro Gly Lys Ile Gly Ile Pro Val Ile Lys Glu Gly Ile Leu Asp Ala 145 150 155 160

Val Val Val Trp Phe Val Leu Gln Leu Asp Asp Glu His Ser Leu Ser 165 170 175

Thr Ser Pro Asn Glu Glu Thr Cys Trp Glu Gln Ala Val Tyr Pro Val 180 185 190

His Asp Leu Ala Asp Tyr Arg Ile Lys Arg Gly Asp Xaa 195 200 205

<210> 1060

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1060

Pro Val Lys Val Trp Glu Gly Leu Arg Glu Lys Arg Ser Val Phe Ser 1 5 10 15

Ser Gly Ser Cys Lys Leu His Leu Pro Gly Ala Leu Pro Leu
20 25 30

Leu Tyr Pro Phe Ala Val Cys Pro Pro Pro Pro Gly Ser Trp Ser Pro 35 40 45

Ser Cys Ser Asn Ser Phe Cys Ser Tyr Ser Arg Gly Leu Leu Gly Leu 50 55 60

Leu Ser Pro Val Arg Leu Gly Xaa Ala Leu Gly Ser Trp Val Ser Ser 65 70 75 80

Thr Asp His Ala Arg Pro Leu Arg Pro Gln Ile Ile 85 90

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<210> 1061
 <211> 295
 <212> PRT
 <213> Homo sapiens
<220>
<221> SITE
<222> (243)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (277)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1061
Ala Glu Ala Ile Pro Leu Ala Asp Gln Pro His Leu Leu Gln Pro Asn
  1
                                      10
                                                           15
Ala Arg Lys Glu Asp Leu Phe Gly Arg Pro Ser Gln Gly Leu Tyr Ser
              20
Ser Ser Ala Ser Ser Gly Lys Cys Leu Met Glu Val Thr Val Asp Arg
         35
                              40
Asn Cys Leu Glu Val Leu Pro Thr Lys Met Ser Tyr Ala Ala Asn Leu
Lys Asn Val Met Asn Met Gln Asn Arg Gln Lys Lys Glu Gly Glu Glu
                     70
Gln Pro Val Leu Pro Glu Glu Thr Glu Ser Ser Lys Pro Gly Pro Ser
Ala His Asp Leu Ala Ala Gln Leu Lys Ser Ser Leu Leu Ala Glu Ile
            100
                                 105
                                                     110
Gly Leu Thr Glu Ser Glu Gly Pro Pro Leu Thr Ser Phe Arg Pro Gln
        115
                            120
                                                 125
Cys Ser Phe Met Gly Met Val Ile Ser His Asp Met Leu Leu Gly Arg
    130
                        135
Trp Arg Leu Ser Leu Glu Leu Phe Gly Arg Val Phe Met Glu Asp Val
145
                    150
                                         155
                                                              160
Gly Ala Glu Pro Gly Ser Ile Leu Thr Glu Leu Gly Gly Phe Glu Val
                165
                                    170
                                                         175
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Lys Glu Ser Lys Phe Arg Arg Glu Met Glu Lys Leu Arg Asn Gln Gln 180 185 190

Ser Arg Asp Leu Ser Leu Glu Val Asp Arg Asp Arg Asp Leu Leu Ile 195 200 205

Gln Gln Thr Met Arg Gln Leu Asn Asn His Phe Gly Arg Arg Cys Ala 210 215 220

Thr Thr Pro Met Ala Val His Arg Val Lys Val Thr Phe Lys Asp Glu 225 230 235 240

Pro Gly Xaa Gly Ser Gly Val Ala Arg Ser Phe Tyr Thr Ala Ile Ala 245 250 255

Gln Ala Phe Leu Ser Asn Glu Lys Leu Pro Asn Leu Glu Cys Ile Pro 260 265 270

Lys Lys Phe Xaa Pro Pro Gln Lys Pro Lys Lys Gly Pro Thr 275 280 285

Pro Asn His Gln Arg Val Phe 290 295

<210> 1062

<211> 35

<212> PRT

<213> Homo sapiens

<400> 1062

Gly Glu Glu His Ile Pro Gln Glu Ala Pro Gln Gly Ala Glu Thr Ala 1 5 10 15

Leu Ile Pro Ala Asp Ile Thr Glu Lys Gln Gln Ser Leu Phe Asn Phe 20 25 30

Val Thr Met

35

<210> 1063

<211> 210

<212> PRT

<213> Homo sapiens

<400> 1063

Gln Tyr Phe Met Thr Met Asp Gly Asp Ser Ser Thr Thr Asp Ala Ser 1 5 10 15

Gln Leu Gly Ile Ser Ala Asp Tyr Ile Gly Gly Ser His Tyr Val Ile 20 25 30

Gln Pro His Asp Asp Thr Glu Asp Ser Met Asn Asp His Glu Asp Thr 35 40 45

Asn Gly Ser Lys Glu Ser Phe Arg Glu Gln Asp Ile Tyr Leu Pro Ile 50 55 60

Ala Asn Val Ala Arg Ile Met Lys Asn Ala Ile Pro Gln Thr Gly Lys 65 70 75 80

Ile Ala Lys Asp Ala Lys Glu Cys Val Gln Glu Cys Val Ser Glu Phe
85 90 95

Ile Ser Phe Ile Thr Ser Glu Ala Ser Glu Arg Cys His Gln Glu Lys
100 105 110

Arg Lys Thr Ile Asn Gly Glu Asp Ile Leu Phe Ala Met Ser Thr Leu 115 120 125

Gly Phe Asp Ser Tyr Val Glu Pro Leu Lys Leu Tyr Leu Gln Lys Phe 130 135 140

Arg Glu Ala Met Lys Gly Glu Lys Gly Ile Gly Gly Ala Val Thr Ala 145 150 155 160

Thr Asp Gly Leu Ser Glu Glu Leu Thr Glu Glu Ala Phe Thr Asn Gln 165 170 175

Leu Pro Ala Gly Leu Ile Thr Thr Asp Gly Gln Gln Gln Asn Val Met 180 185 190

Val Tyr Thr Ser Tyr Gln Gln Ile Ser Gly Val Gln Gln Ile Gln 195 200 205

Phe Ser 210

<210> 1064

<211> 332

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (315)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (326)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1064

Leu Arg Pro Ser Val Tyr Pro Val Ala Ser Ser Leu Pro Val Pro Asp
1 5 10 15

Leu Ile Leu Arg Gln Arg Leu Leu Gln Asp Pro Val Ala Arg Pro Gln
20 25 30

Ala Met Ala Gly Pro Phe Ser Arg Leu Leu Ser Ala Arg Pro Gly Leu 35 40 45

Arg Leu Leu Ala Leu Ala Gly Ala Gly Ser Leu Ala Ala Gly Phe Leu 50 55 60

Leu Arg Pro Glu Pro Val Arg Ala Ala Ser Glu Arg Arg Arg Leu Tyr 65 70 75 80

Pro Pro Ser Ala Glu Tyr Pro Asp Leu Arg Lys His Asn Asn Cys Met 85 90 95

Ala Ser His Leu Thr Pro Ala Val Tyr Ala Arg Leu Cys Asp Lys Thr 100 105 110

Thr Pro Thr Gly Trp Thr Leu Asp Gln Cys Ile Gln Thr Gly Val Asp 115 120 125

Asn Pro Gly His Pro Phe Ile Lys Thr Val Gly Met Val Ala Gly Asp 130 135 140

Glu Glu Thr Tyr Glu Val Phe Ala Asp Leu Phe Asp Pro Val Ile Gln 145 150 155 160

Glu Arg His Asn Gly Tyr Asp Pro Arg Thr Met Lys His Thr Thr Asp 165 170 175

Leu Asp Ala Ser Lys Ile Arg Ser Gly Tyr Phe Asp Glu Arg Tyr Val 180 185 190

Leu Ser Ser Arg Val Arg Thr Gly Arg Ser Ile Arg Gly Leu Ser Leu 195 200 205 Pro Pro Ala Cys Thr Arg Ala Xaa Arg Arg Glu Val Glu Arg Val Val 210 215 220

Val Asp Ala Leu Ser Gly Leu Lys Gly Asp Leu Ala Gly Arg Tyr Tyr 225 230 235 240

Arg Leu Ser Glu Met Thr Glu Ala Glu Gln Gln Gln Leu Ile Asp Asp 245 250 255

His Phe Leu Phe Asp Lys Pro Val Ser Pro Leu Leu Thr Ala Ala Gly 260 265 270

Met Ala Arg Asp Trp Pro Asp Ala Arg Gly Ile Trp His Asn Asn Glu 275 280 285

Lys Ser Phe Leu Ile Trp Val Asn Glu Glu Asp His Thr Arg Val Ile 290 295 300

Ser Met Glu Lys Gly Gly Asn Met Lys Arg Xaa Phe Glu Arg Ser Ala 305 310 315 320

Glu Ala Ser Lys Arg Xaa Arg Asp Tyr Val Gly Asp 325 330

<210> 1065

<211> 241

<212> PRT

<213> Homo sapiens

<400> 1065

Ser Phe Phe Lys Val Ser Arg Ser Glu Ala Ser His Arg Met Ile
1 5 10 15

Leu Leu Asn Asn Ser His Lys Leu Leu Ala Leu Tyr Lys Ser Leu Ala
20 25 30

Arg Ser Ile Pro Glu Ser Leu Lys Val Tyr Gly Ser Val Tyr His Ile 35 40 45

Asn His Gly Asn Pro Phe Asn Met Glu Val Leu Val Asp Ser Trp Pro 50 55 60

Glu Tyr Gln Met Val Ile Ile Arg Pro Gln Lys Gln Glu Met Thr Asp
65 70 75 80

Asp Met Asp Ser Tyr Thr Asn Val Tyr Arg Met Phe Ser Lys Glu Pro
85 90 95

Gln Lys Ser Glu Glu Val Leu Lys Asn Cys Glu Ile Val Asn Trp Lys

100 105 110

Gln Arg Leu Gln Ile Gln Gly Leu Gln Glu Ser Leu Gly Glu Gly Ile 115 120 125

Arg Val Ala Thr Phe Ser Lys Ser Val Lys Val Glu His Ser Arg Ala 130 135 140

Leu Leu Leu Val Thr Glu Asp Ile Leu Lys Leu Asn Ala Ser Ser Lys
145 150 155 160

Ser Lys Leu Gly Ser Trp Ala Glu Thr Gly His Pro Asp Asp Glu Phe 165 170 175

Glu Ser Glu Thr Pro Asn Phe Lys Tyr Ala Gln Leu Asp Val Ser Tyr 180 185 190

Ser Gly Leu Val Asn Asp Asn Trp Lys Arg Gly Lys Asn Glu Arg Ser 195 200 205

Leu His Tyr Ile Lys Arg Cys Ile Glu Asp Leu Pro Ala Ala Cys Met 210 225 220

Leu Gly Pro Glu Glu Ile Pro Val Ser Trp Val Thr Met Gly Pro Phe 225 230 235 240

Leu

<210> 1066

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1066

Glu Val Leu Arg Asp Cys Xaa Ser Pro Asn Ser Ile Ser Ile Met Gly
1 5 10 15

Leu Asn Thr Ser Arg Val Ala Ile Thr Leu Lys Pro Gln Asp Pro Met

20 25 30

Glu Gln Asn Val Ala Glu Leu Leu Gln Phe Leu Leu Val Lys Asp Gln 35 40 45

Ser Lys Tyr Pro Ile Arg Glu Ser Glu Met Arg Glu Tyr Ile Val Lys
50 55 60

Glu Tyr Arg Asn Gln Phe Pro Glu Ile Leu Arg Arg Ala Ala Ala His
65 70 75 80

Leu Glu Cys Ile Phe Arg Phe Glu Leu Arg Glu Leu Asp Pro Glu Ala 85 90 95

His Thr Tyr Ile Leu Leu Asn Lys Leu Gly Pro Val Pro Phe Glu Gly 100 105 110

Leu Glu Glu Ser Pro Asn Gly Pro Lys Met Gly Leu Leu Met Met Ile 115 120 125

Leu Xaa Gln Ile Phe Leu Asn Gly Asn Gln Ala Lys Glu Ala 130 135 140

<210> 1067

<211> 111

<212> PRT

<213> Homo sapiens

<400> 1067

Thr Arg Ser Ala Gly Ser Arg Gly Gly Ala Trp Thr Pro Ala Trp Gln
1 5 10 15

Val Pro Pro Arg Glu Arg Gly Ser Arg Cys Ile Ser Ala Ala Phe Ile 20 25 30

Thr Asp Leu Gly Leu His Gln Gly Thr Cys Arg Thr Ala Leu Lys Thr 35 40 45

Ala Glu Ser Glu Glu Pro Ser Leu Gly Pro Gly Arg Pro Ala Val Gln
50 55 60

Leu Ala Ser Arg Ile Pro Leu Pro Ala Pro Ala Asp Asp Leu Phe Trp 65 70 75 80

Arg Val Glu Asn Val Leu Gly Phe Lys Val Gln Ser Gly Phe Leu Ser 85 90 95

Ile His Tyr Ser Cys Leu His Ser Thr Asn Lys Ser Trp Glu Arg
100 105 110

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<210> 1068
 <211> 59
 <212> PRT
 <213> Homo sapiens
<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1068
Leu Leu Tyr Gln Ser Ile Glu Asp Ser Ser Tyr Leu Leu Pro Val Ala
                                      10
Gln Phe Arg Phe Trp Glu Xaa Ala Glu Gln Val Lys His Arg Lys Leu
              20
                                  25
Lys Arg Arg Asn Pro His Phe Gly Pro Ile Phe Leu Leu Asp Tyr Phe
                              40
Leu Ile Ser Ile Leu Pro Ile Val Leu Met Phe
     50
<210> 1069
<211> 55
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1069
Cys Leu Ala Val Arg Arg His Glu Leu Arg Thr Val His His Gly Ser
                  5
                                      10
                                                           15
Glu Arg Xaa Arg Asn Pro Ser Pro Ile Arg Thr Met Thr Asp Ile Leu
             20
                                  25
Ser Arg Gly Pro Lys Ser Met Ile Ser Leu Ala Gly Gly Leu Pro Asn
         35
                             40
Pro Asn Met Phe Pro Phe Lys
     50
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<210> 1070
 <211> 369
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (293)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1070
Asp Arg Ser Phe Leu Glu Asp Thr Thr Pro Ala Arg Asp Glu Lys Lys
                  5
Val Gly Ala Lys Ala Ala Gln Gln Asp Ser Xaa Ser Xaa Gly Glu Ala
             20
                                  25
                                                       30
Leu Gly Gly Xaa Pro Met Val Ala Xaa Phe Gln Asp Asp Val Asp Leu
         35
                                                  45
Glu Asp Gln Pro Arg Gly Ser Pro Pro Leu Pro Ala Gly Pro Val Pro
     50
                         55
                                              60
Ser Gln Asp Ile Thr Leu Ser Ser Glu Glu Glu Ala Glu Val Ala Ala
 65
                     70
                                          75
Pro Thr Lys Gly Pro Ala Pro Ala Pro Gln Gln Cys Ser Glu Pro Glu
                 85
                                      90
```

Thr Lys Trp Ser Ser Ile Pro Ala Ser Lys Pro Arg Arg Gly Thr Ala Pro Thr Arg Thr Ala Ala Pro Pro Trp Pro Gly Gly Val Ser Val Arg Thr Gly Pro Glu Lys Arg Ser Ser Thr Arg Pro Pro Ala Glu Met Glu Pro Gly Lys Gly Glu Gln Ala Ser Ser Ser Glu Ser Asp Pro Glu Gly Pro Ile Ala Ala Gln Met Leu Ser Phe Val Met Asp Asp Pro Asp Phe Glu Ser Glu Gly Ser Asp Thr Gln Arg Arg Ala Asp Asp Phe Pro Val Arg Asp Asp Pro Ser Asp Val Thr Asp Glu Asp Glu Gly Pro Ala Glu Pro Pro Pro Pro Lys Leu Pro Leu Pro Ala Phe Arg Leu Lys Asn Asp Ser Asp Leu Phe Gly Leu Gly Leu Glu Glu Ala Gly Pro Lys Glu Ser Ser Glu Glu Gly Lys Glu Gly Lys Thr Pro Ser Lys Glu Lys Lys Lys Lys Lys Lys Gly Lys Glu Glu Glu Lys Ala Ala Lys Lys Lys Ser Lys His Lys Lys Ser Lys Asp Lys Glu Glu Gly Lys Glu Glu Arg Arg Arg Xaa Gln Arg Pro Pro Arg Ser Arg Glu Arg Thr Ala Ala Asp Glu Leu Glu Ala Phe Leu Gly Gly Gly Ala Arg Ala Ala Thr Leu Gly Val Ala Thr Thr Arg Ser Ser Arg Pro Ala Trp Ala Val Ala Ala Leu Gly Arg Gly Ala Cys Leu Ser Leu Pro Gly Glu Ala Phe Ala Ser Val Pro Ser Pro Leu Pro Leu Pro Arg Gly Cys Arg Val Arg

Phe

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<210> 1071
<211> 209
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (189)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (202)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1071
Glu Arg Leu Tyr Pro Ala Val Val Gly Gly Arg Ala Val Glu Gln
                  5
                                     10
                                                          15
Gln His Arg Arg Gly Ser Arg Glu Ala Gly Ser Ala Arg Ala Glu Met
             20 .
                                 25
                                                      30
Trp Asn Leu Leu His Glu Thr Asp Ser Ala Val Ala Thr Ala Arg Arg
         35
                             40
Pro Arg Trp Leu Cys Ala Gly Ala Leu Val Leu Ala Gly Gly Phe Phe
Leu Leu Gly Phe Leu Phe Gly Trp Phe Ile Lys Ser Ser Asn Glu Ala
                     70
```

Thr Asn Ile Thr Pro Lys His Asn Met Lys Ala Phe Leu Asp Glu Leu 85 90 95

Lys Ala Glu Asn Ile Lys Lys Phe Leu Tyr Asn Phe Thr Gln Ile Pro 100 105 110

His Leu Ala Gly Thr Glu Gln Asn Phe Gln Leu Ala Lys Gln Ile Gln
115 120 125

Ser Gln Trp Lys Glu Phe Gly Leu Asp Ser Val Glu Leu Ala His Tyr 130 135 140

Asp Val Leu Leu Ser Tyr Pro Asn Lys Thr His Pro Asn Tyr Ile Ser 145 150 155 160

Ile Ile Asn Glu Asp Gly Asn Glu Ile Phe Asn Thr Ser Leu Phe Glu 165 170 175

Pro Pro Xaa Xaa Gly Tyr Glu Asn Gly Ser Asp Ile Xaa Pro Pro Phe 180 185 190

Ser Ala Phe Ser Pro Gln Gly Met Pro Xaa Gly Asp Leu Val Tyr Xaa 195 200 205

Asn

<210> 1072

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1072

Leu Gln Gly Leu Leu Ile Asn Pro Leu Thr Leu Ser Pro Ser Asn Thr

1 5 10 15

Val Ser Gln Ser Leu Phe Phe Trp Leu Gly Phe Tyr Ile Lys Leu Ser 20 25 30

Ile Leu Ser Asn Asp Leu Ser Leu Leu Pro Phe Leu Leu His Ile Pro
35 40 45

Ile Lys Thr Phe Phe Val Phe Asn Ser Cys His Leu Asp Ser Arg Thr
50 55 60

Ser Ser Ile Pro His Val Cys Ser Leu Leu Cys Gln Pro Arg Pro Phe 65 70 75 80

Leu Tyr Pro Pro Ala Trp Xaa Cys Cys Pro Leu Cys Ser Xaa Leu Thr 85 90 95

Arg Tyr Lys Glu His Glu Asp Gly Tyr Met Arg Leu Gln Leu Val Arg 100 105 110

Xaa Glu Ser Val Glu Leu Thr Gln Gln Leu Leu Arg Gln Pro Gln Glu 115 120 125

Gly Ser Gly Trp Glu Arg Arg 130 135

<210> 1073

. <211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1073

Pro Ser Asp Val Asn Val Met Ala Glu Ser Leu Lys Asp Met Glu Ala 1 5 10 15

Asp Ala Gln Lys Leu Tyr Gln Leu Ile Trp Arg Gln Phe Val Ala Cys
20 25 30

Gln Met Thr Pro Ala Lys Tyr Asp Ser Thr Thr Leu Thr Val Gly Xaa

35 40 45

Gly Asp Phe Arg Leu Lys Ala Arg Gly Arg Ile Leu Arg Phe Asp Gly 50 55 60

Trp Thr Lys Val Met Pro Ala Leu Arg Lys Gly Asp Glu Asp Arg Ile
65 70 75 80

Leu Pro Ala Val Asn Lys Gly Asp Ala Leu Thr Leu Val Glu Leu Thr
85 90 95

Pro Ala Gln His Phe Thr Lys Pro Pro Ala Arg Phe Ser Glu Ala Ser 100 105 110

Leu Val Lys Glu Leu Glu Lys Arg Gly Ile Gly Arg Pro Ser Xaa Tyr 115 120 125

Ala Ser Ile Ile Ser Thr Ile 130 135

<210> 1074

<211> 410

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (177)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (248)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (300)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (372)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1074

Arg Asn Lys Arg Glu Glu Lys Lys Ala Gln Asn Ser Glu Xaa Arg Met

1 5 10 15

Lys Arg Ala Gln Xaa Tyr Asp Ser Ser Phe Pro Asn Trp Glu Phe Ala 20 25 30

Arg Met Ile Lys Glu Phe Arg Ala Thr Leu Glu Cys His Pro Leu Thr 35 40 45

Met Thr Asp Pro Ile Glu Glu His Arg Ile Cys Val Cys Val Arg Lys
50 55 60

Arg Pro Leu Asn Lys Gln Glu Leu Ala Lys Lys Glu Ile Asp Val Ile 65 70 75 80

Ser Ile Pro Ser Lys Cys Leu Leu Leu Val His Glu Pro Lys Leu Lys 85 90 95

Val Asp Leu Thr Lys Tyr Leu Glu Asn Gln Ala Phe Cys Phe Asp Phe 100 105 110

Ala Phe Asp Glu Thr Ala Ser Asn Glu Val Val Tyr Arg Phe Thr Ala 115 120 125

Arg Pro Leu Val Gln Thr Ile Phe Glu Gly Gly Lys Ala Thr Cys Phe 130 135 140

Ala Tyr Gly Gln Thr Gly Ser Gly Lys Thr His Thr Met Gly Gly Asp 145 150 155 160

Leu Ser Gly Lys Ala Gln Asn Ala Ser Lys Gly Ile Tyr Ala Met Ala 165 170 175

Xaa Arg Asp Val Phe Leu Leu Lys Asn Gln Pro Cys Tyr Arg Lys Leu 180 185 190

Gly Leu Glu Val Tyr Val Thr Phe Phe Glu Ile Tyr Asn Gly Lys Leu 195 200 205

Phe Asp Leu Leu Asn Lys Lys Ala Lys Leu Arg Val Leu Glu Asp Gly 210 215 220

Lys Gln Gln Val Gln Val Gly Leu Gln Glu His Leu Val Asn Ser 225 230 235 240 Ala Asp Asp Val Ile Lys Met Xaa Asp Met Gly Ser Ala Cys Arg Thr 245 250 255

Ser Gly Gln Thr Phe Ala Asn Ser Asn Ser Ser Arg Ser His Ala Cys 260 265 270

Phe Gln Ile Ile Leu Arg Ala Lys Gly Arg Met His Gly Lys Phe Ser 275 280 285

Leu Val Asp Leu Ala Gly Asn Glu Arg Gly Ala Xaa Thr Ser Ser Ala 290 295 300

Asp Arg Gln Thr Arg Met Glu Gly Ala Glu Ile Asn Lys Ser Leu Leu 305 310 315 320

Ala Leu Lys Glu Cys Ile Arg Ala Leu Gly Gln Asn Lys Ala His Thr 325 330 335

Pro Phe Arg Glu Ser Lys Leu Thr Gln Val Leu Arg Asp Ser Phe Ile 340 345 350

Gly Glu Asn Ser Arg Thr Cys Met Ile Ala Thr Ile Ser Pro Gly Ile 355 360 365

Ser Ser Cys Xaa Ile Tyr Phe Lys His Pro Glu Ile Cys Arg Gln Gly 370 375 380

Gln Gly Ala Glu Pro Pro Gln Trp Ala Gln Trp Arg Ala Val Asp Ser 385 390 395 400

Asn Gly Asn Arg Arg Asp Gly Ser Leu Leu 405 410

<210> 1075

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1075

Leu Pro Phe Phe Arg Leu Ser Phe Ala Phe Val Leu Arg Gly Phe Arg
1 5 10 15

Asn Thr Ala Gln Asn Tyr Arg Glu Asn Thr Pro Ala Arg Ala Leu Ser 20 25 30

Arg Thr Arg Cys Ala Ala Ser Val Trp Leu Ala Ser Ser Ser Gln Phe 35 40 45

Pro Thr His Arg Leu Arg Ser Ser Asn Ser His Asp Ile Cys Ser Thr 50 55 60

Arg Arg Ile Arg Cys Arg Val Leu Ala Arg Pro Phe Ser Ser Ala 65 70 75 80

Cys Cys Xaa His Arg Cys Val Thr Arg Asn Arg Arg Ala Glu Gln His
85 90 95

Asp Val Arg Phe Gly Glu Leu His Gln Pro Tyr Pro Gln Ala Gly Ala 100 105 110

Ala Gly Val Ser Arg Gly Arg Gly Glu Ala Ala Val Gly Asp Arg Trp
115 120 125

Glu Val Gly Arg Pro Gly Leu Gly Gly Ile Leu Gly Ala Gly Glu Glu 130 135 140

Met Arg Ala Pro Glu Arg Pro Arg Val Arg Arg Arg Arg Leu Glu Pro 145 150 155 160

Ser Arg Cys Cys Gly Pro Xaa Gly Pro Phe His Phe Ala Cys Lys Thr 165 170 175

Gln Ile Lys Thr Gln Cys Asp Tyr Ser Glu Leu Phe Cys Leu Lys Lys 180 185 190

Asn Val Arg Ser 195

<210> 1076

<211> 31

<212> PRT

<213> Homo sapiens

<400> 1076

Gln Leu Thr Leu Asn Ile Ser Leu Leu Leu Ser Leu Ser Leu Ser Phe
1 5 10 15

Phe Phe Asn Met Val Lys Leu Asp Gln Gly Ser Glu His Arg Phe 20 25 30

<210> 1077

<211> 87

<212> PRT

<213> Homo sapiens

<400> 1077

Asn Cys Pro Asn Pro His Leu His Lys Asn Leu Ser Pro Val His Lys

1 5 10 15

Ala Asp His Glu Ala Ile Ile Phe Leu Glu Gly Phe Leu Ala Cys Ser 20 25 30

Pro Val Ala Ser Ala Ala Leu Ala Leu Cys His Ser Glu Pro Lys Gly 35 40 45

Lys Val Met Glu Gln His His Ile Cys Arg Leu Ser Val Leu Phe Gly 50 55 60

Glu Gly Lys Gly Arg Glu Cys Arg Arg Met Lys Lys Phe Leu Pro Thr 65 70 75 80

Ala Ser Ile Leu Ile Phe Leu 85

<210> 1078

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1078

Pro Asp Gln Gly Gly Asp Glu Gly Ile Leu Ser Ser Arg Thr Cys Arg

1 10 15

Gly Thr Arg Gln Gly Pro His Pro Arg Gly Asp Pro Val Ala Arg His

20 25 30

Ile Met Gly Thr Ala Gly Trp Pro Gln Ala Ser Ala Pro Leu Leu Pro
35 40 45

Cys Arg Gln Gly Leu Leu Glu Pro Cys Ala His Pro Gly Leu Leu Arg
50 55 60

Xaa Gln Pro Cys Thr Glu Ser Ala Asp Val Pro Cys Leu Xaa Thr Arg
65 70 75 80

Pro Leu Cys Pro Leu 85

<210> 1079

<211> 594

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (430)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1079

Cys Cys Leu Arg Phe Ser Phe Thr Phe Thr Glu Met Ser Tyr Gly Glu
1 5 10 15

Ile Glu Gly Lys Phe Leu Gly Pro Arg Glu Glu Val Thr Ser Glu Pro
20 25 30

Arg Cys Lys Leu Lys Ser Thr Thr Glu Ser Tyr Val Phe His Asn 35 40 45

His Ser Asn Ala Asp Phe His Arg Ile Gln Glu Lys Thr Gly Asn Asp 50 55 60

Trp Val Pro Val Thr Ile Ile Asp Val Arg Gly His Ser Tyr Leu Gln 65 70 75 80

Glu Asn Lys Ile Lys Thr Thr Asp Leu His Arg Pro Leu His Asp Glu
85 90 95

Met Pro Gly Asn Arg Pro Asp Val Ile Glu Ser Ile Asp Ser Gln Val 100 105 110

Leu Gln Glu Ala Arg Pro Pro Leu Val Ser Ala Asp Asp Glu Ile Tyr 115 120 125

Ser Thr Ser Lys Ala Phe Ile Gly Pro Ile Tyr Lys Pro Pro Glu Lys Lys Lys Arg Asn Glu Gly Arg Asn Glu Ala His Val Leu Asn Gly Ile Asn Asp Arg Gly Gly Gln Lys Glu Lys Gln Lys Phe Asn Ser Glu Lys Ser Glu Ile Asp Asn Glu Leu Phe Gln Phe Tyr Lys Glu Ile Glu Glu Leu Glu Lys Glu Lys Asp Gly Phe Glu Asn Ser Cys Lys Glu Ser Glu Pro Ser Gln Glu Gln Phe Val Pro Phe Tyr Glu Gly His Asn Asn Gly Leu Leu Lys Pro Asp Glu Glu Lys Lys Asp Leu Ser Asn Lys Ala Met Pro Ser His Cys Asp Tyr Gln Gln Asn Leu Gly Asn Glu Pro Asp Lys Tyr Pro Cys Asn Gly Gln Val Ile Pro Thr Phe Cys Asp Thr Ser Phe Thr Ser Phe Arg Pro Glu Trp Gln Ser Val Tyr Pro Phe Ile Val Pro Tyr Gly Pro Pro Leu Pro Ser Leu Asn Tyr His Leu Asn Ile Gln Arg Phe Ser Gly Pro Pro Asn Pro Pro Ser Asn Ile Phe Gln Ala Gln Asp Asp Ser Gln Ile Gln Asn Gly Tyr Tyr Val Asn Asn Cys His Val Asn Trp Asn Cys Met Thr Phe Asp Gln Asn Asn Glu Tyr Thr Asp Cys Ser Glu Asn Arg Ser Ser Val His Pro Ser Gly Asn Gly Cys Ser Met Gln Asp Arg Tyr Val Ser Asn Gly Phe Cys Glu Val Arg Glu Arg Cys Trp Lys Asp His Cys Met Asp Lys His Asn Gly Thr Asp Arg Phe Val Asn 

Gln Gln Phe Gln Glu Glu Lys Leu Asn Lys Leu Gln Lys Leu Leu Ile 405 410 415

Leu Leu Arg Gly Leu Pro Gly Ser Gly Lys Thr Thr Leu Xaa Arg Ile
420 425 430

Leu Leu Gly Gln Asn Arg Asp Gly Ile Val Phe Ser Thr Asp Asp Tyr 435 440 445

Phe His His Gln Asp Gly Tyr Arg Tyr Asn Val Asn Gln Leu Gly Asp 450 455 460

Ala His Asp Trp Asn Gln Asn Arg Ala Lys Gln Ala Ile Asp Gln Gly
465 470 475 480

Arg Ser Pro Val Ile Ile Asp Asn Thr Asn Ile Gln Ala Trp Glu Met 485 490 495

Lys Pro Tyr Val Glu Val Ala Ile Gly Lys Gly Tyr Arg Val Glu Phe 500 505 510

His Glu Pro Glu Thr Trp Trp Lys Phe Asp Pro Glu Glu Leu Glu Lys 515 520 525

Arg Asn Lys His Gly Val Ser Arg Lys Lys Ile Ala Gln Met Leu Asp 530 535 540

Arg Tyr Glu Tyr Gln Met Ser Ile Ser Ile Val Met Asn Ser Val Glu 545 550 555 560

Pro Ser His Lys Ser Thr Gln Arg Pro Pro Pro Pro Gln Gly Arg Gln 565 570 575

Arg Trp Gly Gly Ser Leu Gly Ser His Asn Arg Val Cys Val Thr Asn 580 585 590

Asn His

<210> 1080

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1080

Leu His Ile Lys Ile Leu Gln Ile Glu Lys Tyr Ile Lys Tyr Ala Met

1 5 10 15

Gly Leu Thr Phe Tyr Gln Asn Ser His Met Ile Ser Phe Ile Ser Ser 20 25 30

Gly Ser Phe Arg Val Pro Ile Ala Leu Pro Ile Phe Thr Tyr Phe Ile 35 40 45

Asn Leu His Xaa Gly Ile Xaa Ser Leu Phe Xaa Phe Phe 50 55 60

<210> 1081

<211> 302

<212> PRT

<213> Homo sapiens

<400> 1081

Ala Pro Pro Ala Leu Leu Glu Ala Glu Val Cys Leu Leu Arg Val Gly
1 5 10 15

Pro Glu Ala Trp Ser Phe Ser Ala Ser Leu Thr Pro Val Ala Leu Gly
20 25 30

Ser Ala Leu Ala Tyr Arg Ser His Gly Val Leu Asp Pro Arg Leu Leu 35 40 45

Val Gly Cys Ala Val Ala Val Leu Ala Val His Gly Ala Gly Asn Leu 50 55 60

Val Asn Thr Tyr Tyr Asp Phe Ser Lys Gly Ile Asp His Lys Lys Ser 65 70 75 80

Asp Asp Arg Thr Leu Val Asp Arg Ile Leu Glu Pro Gln Asp Val Val 85 90 95

Arg Phe Gly Val Phe Leu Tyr Thr Leu Gly Cys Val Cys Ala Ala Cys 100 105 110

Leu Tyr Tyr Leu Ser Pro Leu Lys Leu Glu His Leu Ala Leu Ile Tyr 115 120 125

Phe Gly Gly Leu Ser Gly Ser Phe Leu Tyr Thr Gly Gly Ile Gly Phe 130 135 140

Lys Tyr Val Ala Leu Gly Asp Leu Ile Ile Leu Ile Thr Phe Gly Pro 145 150 155 160

Leu Ala Val Met Phe Ala Tyr Ala Ile Gln Val Gly Ser Leu Ala Ile 165 170 175

Phe Pro Leu Val Tyr Ala Ile Pro Leu Ala Leu Ser Thr Glu Ala Ile 180 185 190

Leu His Ser Asn Asn Thr Arg Asp Met Glu Ser Asp Arg Glu Ala Gly
195 200 205

Ile Val Thr Leu Ala Ile Leu Ile Gly Pro Thr Phe Ser Tyr Ile Leu 210 215 220

Tyr Asn Thr Leu Leu Phe Leu Pro Tyr Leu Val Phe Ser Ile Leu Ala 225 230 235 240

Thr His Cys Thr Ile Ser Leu Ala Leu Pro Leu Leu Thr Ile Pro Met 245 250 255

Ala Phe Ser Leu Glu Arg Gln Phe Arg Ser Gln Ala Phe Asn Lys Leu 260 265 270

Pro Gln Arg Thr Ala Lys Leu Asn Leu Leu Gly Leu Phe Tyr Val 275 280 285

Phe Gly Ile Ile Leu Ala Pro Ala Gly Ser Leu Pro Lys Ile 290 295 300

<210> 1082

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1082
Gln Asp Val Ser Glu Met Asp Val Xaa Phe Leu Leu Ile Gln Leu Ser
                                      10
Cys Tyr Phe Ser Ser Gly Ser Cys Gly Lys Val Leu Val Trp Pro Thr
                                  25
Glu Tyr Ser His Trp Ile Asn Met Lys Thr Ile Leu Glu Glu Leu Val
                             40
Gln Arg Gly His Glu Val Thr Val Val Xaa Ile Xaa Gly Phe Tyr Ser
     50
Cys Gln Cys Gln
 65
<210> 1083
<211> 85
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1083
Xaa Pro Pro Gly Gly Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu
Gln Val Arg Ala Ile Arg Leu Ala Leu Glu Gly Val Asp Val Lys Leu
Glu Gln Ala Ala Arg Thr Leu Gly Ala Gly Arg Trp Arg Val Phe Phe
                             40
Thr Ile Thr Leu Pro Leu Thr Leu Pro Gly Ile Ile Val Gly Thr Val
     50
                         55
```

Leu Ala Phe Ala Arg Ser Leu Gly Glu Phe Gly Ala His His Leu Cys

75

80

70

65

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Val Glu His Ser Trp
                 85
<210> 1084
<211> 166
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (159)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (163)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1084
Pro Pro Ser Ala Ser Ser Val Ala Gly Asp Leu Gly Arg Gly Thr Arg
                                      10
Thr Glu Val Glu Ala Arg Ala Ala Arg Pro Gly Ala Glu Ser Ala Pro
Ala Ala Ala Met Pro Asp Ser Trp Asp Lys Asp Val Tyr Pro Glu Pro
```

40

Pro Arg Arg Thr Pro Val Gln Pro Asn Pro Ile Val Tyr Met Met Lys
50 55 60

Ala Phe Asp Leu Ile Val Asp Arg Pro Val Thr Leu Val Arg Glu Phe 65 70 75 80

Ile Glu Arg Gln His Ala Lys Asn Arg Tyr Tyr Tyr Tyr His Arg Gln
85 90 95

Tyr Arg Arg Val Pro Asp Ile Thr Glu Cys Lys Glu Glu Asp Ile Met
100 105 110

Cys Ile Lys Xaa Asp Gln Glu Ile Ile Thr Leu Cys Arg Ile Gly Ser 115 120 125

Lys Xaa Xaa Ser Arg Gly Lys Asp Arg Leu Pro Ala Asp Cys Ile Lys 130 135 140

Arg Thr Xaa Gly Pro Thr 165

<210> 1085

<211> 392

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (386)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1085

Met Glu Leu Val Ala Gly Cys Tyr Glu Gln Val Leu Phe Gly Phe Ala 1 5 10 15

Val His Pro Glu Pro Glu Ala Cys Gly Asp His Glu Gln Trp Thr Leu 20 25 30

Val Ala Asp Phe Thr His His Ala His Thr Ala Ser Leu Ser Ala Val
35 40 45

Ala Val Asn Ser Arg Phe Val Val Thr Gly Ser Lys Asp Glu Thr Ile 50 55 60

His Ile Tyr Asp Met Lys Lys Ile Glu His Gly Ala Leu Val His
65 70 75 80

His Ser Gly Thr Ile Thr Cys Leu Lys Phe Tyr Gly Asn Arg His Leu 85 90 95

Ile Ser Gly Ala Glu Asp Gly Leu Ile Cys Ile Trp Asp Ala Lys Lys
100 105 110

Trp Glu Cys Leu Lys Ser Ile Lys Ala His Lys Gly Gln Val Thr Phe 115 120 125

Leu Ser Ile His Pro Ser Gly Lys Leu Ala Leu Ser Val Gly Thr Asp 130 135 140

Lys Thr Leu Arg Thr Trp Asn Leu Val Glu Gly Arg Ser Ala Phe Ile 145 150 155 160

Lys Asn Ile Lys Gln Asn Ala His Ile Val Glu Trp Ser Pro Arg Gly
165 170 175

Glu Gln Tyr Val Val Ile Ile Gln Asn Lys Ile Asp Ile Tyr Gln Leu 180 185 190

Asp Thr Ala Ser Ile Ser Gly Thr Ile Thr Asn Glu Lys Arg Ile Ser 195 200 205

Ser Val Lys Phe Leu Ser Glu Ser Val Leu Ala Val Ala Gly Asp Glu 210 215 220

Glu Val Ile Arg Phe Phe Asp Cys Asp Ser Leu Val Cys Leu Cys Glu 225 230 235 240

Phe Lys Ala His Glu Asn Arg Val Lys Asp Met Phe Ser Phe Glu Ile 245 250 255

Pro Glu His His Val Ile Val Ser Ala Ser Ser Asp Gly Phe Ile Lys 260 265 270

Met Trp Lys Leu Lys Gln Asp Lys Lys Val Pro Pro Ser Leu Leu Cys 275 280 285

Glu Ile Asn Thr Asn Ala Arg Leu Thr Cys Leu Gly Val Trp Leu Asp 290 295 300

Lys Val Ala Asp Met Lys Glu Ser Leu Pro Pro Ala Ala Glu Pro Ser 305 310 315 320

Pro Val Ser Lys Glu Gln Ser Lys Ile Gly Lys Lys Glu Pro Gly Asp 325 330 335

Thr Val His Lys Glu Glu Lys Arg Ser Lys Pro Asn Thr Lys Lys Arg 340 345 350

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Gly Leu Thr Gly Asp Ser Lys Lys Ala Thr Lys Glu Ser Gly Leu Ile 355 360 365
```

Ser Thr Lys Lys Arg Lys Met Val Glu Met Leu Glu Lys Lys Arg Lys 370 375 380

Lys Xaa Lys Ile Lys Thr Met Gln 385 390

<210> 1086

<211> 238

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1086

Ala Gly Thr Met His Gly Arg Leu Lys Val Lys Thr Ser Glu Glu Gln
1 5 10 15

Ala Glu Ala Lys Arg Leu Glu Arg Glu Gln Lys Leu Lys Leu Tyr Gln
20 25 30

Ser Ala Thr Gln Ala Val Phe Gln Lys Arg Gln Ala Gly Glu Leu Asp 35 40 45

Glu Ser Val Leu Glu Leu Thr Ser Gln Ile Leu Gly Ala Asn Pro Asp 50 55 60

Phe Ala Thr Leu Trp Asn Cys Arg Arg Glu Val Leu Gln Gln Leu Glu
65 70 75 80

Thr Gln Lys Ser Pro Glu Glu Leu Ala Ala Leu Val Lys Ala Glu Leu
85 90 95

Gly Phe Leu Glu Ser Cys Leu Arg Val Asn Pro Lys Ser Tyr Gly Thr

Trp His His Arg Cys Trp Leu Leu Gly Xaa Leu Pro Glu Pro Asn Trp
115 120 125

Thr Arg Glu Leu Glu Leu Cys Ala Arg Phe Leu Glu Val Asp Glu Arg 130 135 140

Asn Phe His Cys Trp Asp Tyr Arg Arg Phe Val Ala Thr Gln Ala Ala

145 150 155 160 Val Pro Pro Ala Glu Glu Leu Ala Phe Thr Asp Ser Leu Ile Thr Arg 165 170 Asn Phe Ser Asn Tyr Ser Ser Trp His Tyr Arg Ser Cys Leu Leu Pro 185 Gln Leu His Pro Gln Pro Asp Ser Gly Pro Gln Gly Arg Leu Pro Glu 195 200 205 Asp Val Leu Leu Lys Glu Leu Glu Leu Val Gln Asn Ala Ser Ser Leu 210 215 220 Thr Pro Met Thr Arg Val Pro Gly Phe Ile Thr Val Gly Ser 225 230 235 <210> 1087 <211> 79 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (59) <223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1087

Leu Pro Ile Gln Ile Ser Leu Glu Leu Asp Arg Cys Phe Arg Gly Ala 1 5 10 15

Ala Leu Glu Arg Gly Phe Gly Leu Cys Lys Gly Arg Lys Glu Val Gln
20 25 30

Lys Asn Gly Val Gly Gly Ser Ala Gly Arg Leu Leu Lys Cys Gly Arg
35 40 45

Trp Lys Leu Gly Gly Glu Ile Lys Gly Thr Xaa Asp Gln Leu Val Cys
50 55 60

Ser Tyr Gln Gly Asp Pro Phe Gln Ser Lys Ser His Met Xaa Val 65 70 75

<210> 1088 <211> 257

<212> PRT

<213> Homo sapiens

<400> 1088

Ile Pro Val His Leu Val Ser Ser Ser Ser Asn Leu Glu Arg Phe Thr
1 5 10 15

Ser Arg Arg Ala Pro Gly Val Gly Leu Tyr Asn Leu Lys Thr Leu Leu 20 25 30

Phe Phe Ser Ser Val Gln Trp Val Leu Ile Pro Thr Met Ala Ile Thr 35 40 45

Gln Phe Arg Leu Phe Lys Phe Cys Thr Cys Leu Ala Thr Val Phe Ser 50 55 60

Phe Leu Lys Arg Leu Ile Cys Arg Ser Gly Arg Gly Arg Lys Leu Ser 65 70 75 80

Gly Asp Gln Ile Thr Leu Pro Thr Thr Val Asp Tyr Ser Ser Val Pro 85 90 95

Lys Gln Thr Asp Val Glu Glu Trp Thr Ser Trp Asp Glu Asp Ala Pro
100 105 110

Thr Ser Val Lys Ile Glu Gly Gly Asn Gly Asn Val Ala Thr Gln Gln 115 120 125

Asn Ser Leu Glu Gln Leu Glu Pro Asp Tyr Phe Lys Asp Met Thr Pro 130 135 140

Thr Ile Arg Lys Thr Gln Lys Ile Val Ile Lys Lys Arg Glu Pro Leu 145 150 155 160

Asn Phe Gly Ile Pro Asp Gly Ser Thr Gly Phe Ser Ser Arg Leu Ala 165 170 175

Ala Thr Gln Asp Leu Pro Phe Ile His Gln Ser Ser Glu Leu Gly Asp 180 185 190

Leu Asp Thr Trp Gln Glu Asn Thr Asn Ala Trp Glu Glu Glu Glu Asp 195 200 205

Ala Ala Trp Gln Ala Glu Glu Val Leu Arg Gln Gln Lys Leu Ala Asp 210 215 220

Arg Glu Lys Arg Ala Ala Glu Gln Gln Arg Lys Lys Met Glu Lys Glu 225 230 235 240 Ala Gln Arg Leu Met Lys Lys Glu Gln Asn Lys Ile Gly Val Lys Leu 245 250 255

Ser

<210> 1089

<211> 44

<212> PRT

<213> Homo sapiens

<400> 1089

Asn Ser Ala Arg Ala Asp Leu Arg Ala Ile Asn Ala Asn Leu Asn Glu
1 5 10 15

Lys Met Glu Ser Leu Thr Ala Val Ser Val Ser Ser Ile Ser Leu Ser 20 25 30

Asn Ser Cys Pro Ser Leu Thr Val Leu Val Ser Val
35 40

<210> 1090

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1090

Gly Arg Pro Ala Cys Ala Arg Glu Pro Gly Leu Glu Pro Tyr Leu Gln
1 5 10 15

Val Pro Asn Leu Arg Leu Xaa Ser Leu Ser Leu Pro Gln Pro Arg Thr 20 25 30

Lys Thr Ser Pro Pro Glu Gly Leu Pro Gln Leu Arg Glu Arg Ser Arg
35 40 45

Ser Ser Leu Gly Pro Gly Cys Ala Pro Gly Ala Gly Ser Asp Val Val 50 55 60

Ser Ser Pro Leu Arg Thr Gly Pro Ala Arg Ser Ser Trp Pro Pro Ser 65 70 75 80

Arg Ala Pro Ser Xaa Pro Pro Ser Ser Thr Ala Thr Thr Cys Arg Trp
85 90 95

<210> 1091

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1091

Lys Ala Lys Phe Asn Ile Thr Gly Ala Cys Leu Asn Asp Ser Asp Asp 1 5 10 15

Asp Ser Pro Asp Leu Asp Leu Asp Gly Asn Glu Ser Xaa Leu Ala Leu 20 25 30

Leu Met Ser Asn Gly Xaa Thr Lys Arg Val Lys Ser Leu Ser Lys Ser 35 40 45

Arg Arg Thr Lys Ile Ala Lys Lys Val Asp Lys Ala Arg Leu Met Ala 50 55 60

Glu Gln Val Met Glu Asp Glu Phe Asp Leu Xaa Ser Asp Xaa Glu Leu 65 70 75 80

Gln Ile Asp Glu Arg Leu Gly Lys Glu Lys Ala Thr Leu Ile Ile Arg 85 90 95

Pro Lys Phe Pro Arg Lys Leu Pro Arg Ala Asn Leu Ala Leu Thr Pro 100 105 110

Thr Glu Phe Val Asn Gln Glu Lys Leu Ser Leu Thr Leu Arg Arg Ile 115 120 125

Tyr Asn Arg 130

<210> 1092

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1092

Leu Arg Ile Thr Val Leu Leu Thr Ser Phe Leu Met Val Leu Gly Thr
1 5 10 15

Gly Leu Arg Cys Ile Pro Ile Ser Asp Leu Ile Leu Lys Arg Arg Leu
20 25 30

Ile His Gly Gly Gln Met Leu Asn Gly Leu Ala Gly Pro Thr Val Met 35 40 45

Asn Ala Ala Pro Phe Leu Ser Thr Thr Trp Phe Ser Ala Asp Glu Arg
50 55 60

Ala Thr Ala Thr Ala Ile Ala Ser Met Leu Ser Tyr Leu Gly Gly Ala 65 70 75 80

Cys Ala Phe Leu Val Gly Pro Leu Val Val Pro Ala Pro Asn Gly Thr 85 90 95

Ser Pro Leu Leu Ala Ala Glu Ser Ser Arg Ala His Ile Lys Asp Arg
100 105 110

Ile Glu Ala Val Leu Tyr Ala Glu Phe Gly Val Val Cys Leu Ile Phe
115 120 125

Ser Ala Thr Leu Ala Tyr Phe Pro Pro Arg Pro Pro Leu Pro Pro Ser 130 135 140 Val Ala Ala Ser Gln Arg Glu Leu Ser Glu Lys Arg Leu 145 150 155

<210> 1093

<211> 235

<212> PRT

<213> Homo sapiens

<400> 1093

Arg Ala Ala Gln Leu Trp Val Trp Glu Gly Val Val Gln Pro Pro Ala 1 5 10 15

Ala Trp Gly Gly Pro Trp Ser Ala Ser Arg Cys Gln Gln Gly Lys Gly
20 25 30

Gly Val Leu Glu Asn Glu Gly Phe Ile Gly Leu Leu Arg Glu Ala Pro 35 40 45

Gln Pro Gln Thr His His Leu Ala Val Asp Thr Cys Val Ser Met Trp 50 55 60

Asp Leu Val Leu Ser Ile Ala Leu Ser Val Gly Cys Thr Gly Ala Val 65 70 75 80

Pro Leu Ile Gln Ser Arg Ile Val Gly Gly Trp Glu Cys Glu Lys His
85 90 95

Ser Gln Pro Trp Gln Val Ala Val Tyr Ser His Gly Trp Ala His Cys 100 105 110

Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His Cys 115 120 125

Leu Lys Lys Asn Ser Gln Val Trp Leu Gly Arg His Asn Leu Phe Glu 130 135 140

Pro Glu Asp Thr Gly Gln Arg Val Pro Val Ser His Ser Phe Pro His 145 150 155 160

Pro Leu Tyr Asn Met Ser Leu Leu Lys His Gln Ser Leu Arg Pro Asp 165 170 175

Glu Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu Pro Ala 180 185 190

Lys Ile Thr Asp Val Val Lys Val Leu Gly Leu Pro Pro Arg Ser Gln 195 200 205

His Trp Gly Pro Pro Ala Thr Pro Gln Ala Gly Ala Ala Ser Asn Gln

210 215 220

Arg Ser Ser Cys Ala Pro Gly Val Phe Ser Val 225 230 235

<210> 1094

<211> 128

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1094

Arg Arg Xaa Xaa Gly Arg Thr Asp Thr Ser Arg Ser Thr Ser Gly Glu
1 5 10 15

Pro Lys Glu Arg Asp Lys Glu Glu Gly Lys Asp Ser Lys Pro Arg Ser 20 25 30

Leu Arg Phe Thr Trp Ser Met Lys Thr Thr Ser Ser Met Asp Pro Asn 35 40 45

Asp Met Met Arg Glu Ile Arg Lys Val Leu Asp Ala Asn Asn Cys Asp 50 55 60

Tyr Glu Gln Lys Glu Arg Phe Leu Leu Phe Cys Val His Gly Asp Ala
65 70 75 80

Arg Gln Asp Ser Leu Val Gln Trp Glu Met Glu Val Cys Lys Leu Pro 85 90 95

Arg Leu Ser Leu Asn Gly Val Arg Phe Lys Arg Ile Ser Gly Thr Ser 100 105 110

Ile Ala Phe Lys Asn Ile Ala Ser Lys Ile Ala Asn Glu Leu Lys Leu 115 120 125

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<210> 1095
 <211> 214
 <212> PRT
 <213> Homo sapiens
<220>
<221> SITE
<222> (161)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1095
Ile Leu Phe Ser Ser Leu Leu Thr Cys Asn Phe Cys Leu Pro Ile Pro
Pro Ser Pro Leu Ser Phe Pro Glu Arg His Leu Gly Ser Tyr Leu Leu
Asp Ser Glu Asn Thr Ser Gly Ala Leu Pro Arg Leu Pro Gln Thr Pro
                              40
Lys Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln Val
     50
                         55
                                              60
Ile Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala Pro
 65
                     70
                                          75
                                                               80
Glu Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln Val
                                      90
Lys Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln Leu
            100
                                 105
Ser Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala Leu
                            120
Lys Glu Arg Pro Ser Pro Gly Pro Pro Trp Ser Pro Cys Ile Thr Ala
    130
                        135
Ile Leu Thr Thr His Thr Cys Thr Ala Trp Ala Val Glu Pro Ser Phe
145
                    150
                                        155
                                                             160
```

```
Xaa Val Met Pro Ala Gln Val Thr Thr Ile Met Ile Lys Asn Cys Leu
165 170 175
```

Pro Gln Gly Val Ser Met Lys Ser Thr Arg Gly Gln Gly Gln Gly Ala 180 185 190

Arg Val Cys Thr Pro Xaa Leu Leu Glu Ile Cys Val Glu Xaa Ser Asp 195 200 205

Ser Ser Leu Val Arg Gln 210

<210> 1096

<211> 62

<212> PRT

<213> Homo sapiens

<400> 1096

Ile Arg His Glu Lys Lys Glu Arg Met Lys Glu Arg Lys Glu Lys Lys
1 10 15

Glu Arg Lys Glu Lys Gly Lys Lys Glu Arg Lys Glu Arg Lys Glu Arg 20 25 30

Lys Arg Glu Lys Glu Arg Arg Lys Arg Arg Lys Gly Ile Pro Gly Ile 35 40 45

Tyr His Cys Met Ser Lys Gly Arg Val Val Asp Arg His Ser 50 55 60

<210> 1097

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids
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<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1097
Lys Lys His Trp Gly Met Leu Gln Asp Ile Gly Leu Gly Lys Asp Phe
                  5
                                     10
Leu Ser Asn Thr Leu Lys Gly Gln Ala Thr Gln Ala Lys Met Xaa Xaa
             20
                                 25
                                                      30
Trp Xaa Xaa Xaa Leu Lys Asn Phe Tyr Thr Ala Lys Glu Thr Lys
         35
                             40
                                                  45
```

25

30

20

Asn Arg Val Thr Val Tyr Glu Tyr Asp Thr Arg Glu Asp Gln Trp Ile
35 40 45

Asn Ile Gly Thr Met Leu Gly Leu Leu Gln Phe Asp Ser Gly Phe Ile 50 55 60

Cys Leu Cys Ala Arg Val Tyr Pro Ser Cys Leu Glu Pro Gly Gln Ser 65 70 75 80

Phe Ile Thr Glu Glu Asp Asp Ala Arg Ser Xaa Ser Ser Thr Glu Trp
85 90 95

Asp Leu Asp Gly Phe Ser Glu Leu Asp Ser Glu Ser Gly Ser Ser Ser 100 105 110

Ser Phe Ser Asp Asp Glu Val Trp Val Gln Val Ala Pro Gln Arg Asn 115 120 125

Ala Gln Asp Gln Gln Gly Ser Leu 130 135

<210> 1099

<211> 37

<212> PRT

<213> Homo sapiens

<400> 1099

Arg His Glu Arg Lys Val Lys Lys Arg Lys Glu Arg Asn Lys Gln
1 5 10 15

Thr Lys Gln Leu Ala Tyr Ile Tyr Leu Leu Asn Thr Gly Arg Ser Ile 20 25 30

His Asn Leu Thr Leu 35

<210> 1100

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1100

Phe Gly Thr Arg Asp Thr Arg Val Lys Glu Arg Gly His Ala Val Ser

1 10 15

Glu Lys Leu Leu Gly Trp Lys Gly Gln Leu His Lys Gly Cys Ser
20 25 30

Cys Arg Gly Ser Pro Ala Ala Arg Cys Leu Leu Thr Val Pro Arg Leu
35 40 45

Ser Pro Asp Thr Glu Gly Cys Lys Gly Ser Leu Phe Leu Leu Ser Gly 50 55 60

Ile Gly Lys Leu Tyr His Leu Ser Leu Pro Thr Leu Thr Ser Ala Pro 65 70 75 80

Ala Thr Leu Ser Leu Trp Leu Leu Leu Thr Phe Ser Pro Leu Ile Phe 85 90 95

Ser Pro Asp Gln Val Leu Gly Xaa Ser 100 105

<210> 1101

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1101

Ser Gly Arg Thr Leu Val Leu Arg Leu Ala Tyr Val Ser Arg Thr Val
1 5 10 15

Thr Thr Met Ala Pro Glu Val Leu Pro Lys Pro Arg Met Arg Gly Leu 20 25 30

Leu Ala Arg Arg Leu Arg Asn His Met Ala Val Ala Phe Val Leu Ser 35 40 45

Leu Gly Val Ala Ala Leu Tyr Lys Phe Arg Val Ala Asp Gln Arg Lys 50 55 60

Lys Ala Tyr Ala Asp Phe Tyr Arg Asn Tyr Asp Val Met Lys Asp Phe 65 70 75 80

Glu Glu Met Arg Lys Ala Gly Ile Phe Gln Ser Val Lys 85 90

<210> 1102

<211> 26

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<212> PRT
 <213> Homo sapiens
 <400> 1102
 Phe Gly Thr Ser Ala Pro Pro Arg Pro Ala Asn Phe Cys Ile Phe Gly
 Arg Asp Gly Val Ser Ser Arg Trp Leu Gly
              20
<210> 1103
<211> 51
 <212> PRT
<213> Homo sapiens
<400> 1103
Gly Ser Glu Ser Asn Arg Leu Lys Phe Lys Ser Ser Ser Ala Thr Trp
                   5
Leu Met Leu Ser Glu Pro Gln Arg Pro Gln Leu Leu Asn Arg Gly Asn
            20
                                  25
                                                       30
His Pro His Leu Ser Ser Phe Gly Arg Lys Leu Asn Glu Ile Tyr Trp
         35
                              40
                                                   45
Gly Ser Arg
     50
<210> 1104
<211> 47
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1104
Lys Arg Tyr Ser Val Leu Ile Leu Cys Lys Lys Xaa Lys Ser Ser Asn
Cys Phe Pro Met Xaa Lys Ile Thr Met Ser Cys Ile Met Leu Leu Ser
                               25
Phe Tyr Val Asn Ile Ser Tyr Xaa Ser Ser Ile Lys Xaa Ile Tyr
         35
                           40
<210> 1105
<211> 72
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1105
Leu Leu Lys Leu Cys Asn Leu Gln Asn Ile Ala Ile Lys Leu His Thr
                 5
                                  10
Met Phe Ser Ile Ile Leu Ile Asp Leu Pro Tyr Lys His Leu Asn Lys
            20
                              25
Lys Tyr Tyr Leu Met Ile Lys Lys Lys Lys Lys Lys Lys Lys Lys
50
Xaa Gly Gly Gly Xaa Lys Lys
```

65

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<210> 1106
<211> 79
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1106
Gly Leu Ser His Ser Asn Ser Ser Tyr Leu Glu Pro Leu Gly Ser Asp
  1
                  5
                                     10
                                                          15
Val Asp Arg Ala Asn Val Lys Phe Thr Glu Asn Thr Cys Val Phe Arg
             20
Thr Leu Lys Gly Thr Ile Arg Ala Cys Phe Pro Ser Leu Tyr Met His
         35
                              40
Ile Phe Gly Ile Ser Xaa Gly Leu Xaa Asp Val Val Ile Xaa Asn Thr
Ala Arg Met Xaa Ala Val Leu Ile His Xaa Gln Lys Arg Gly Gly
                     70
```

<210> 1107

<211> 91

<212> PRT

<213> Homo sapiens

<222> (46)

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<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1107
Ile Ile Ala Ala Leu Ser Pro Ile Gln Ile Leu Pro Ser Asp Gly Lys
  1
                   5
                                                           15
Asp Gln Phe Ser Cys Gly Asn Ser Val Ala Asp Gln Ala Phe Leu Asp
             20
                                  25
                                                       30
Ser Leu Ser Ala Ser Thr Ala Gln Xaa Ser Ser Ser Ala Ala Ser Asn
                              40
                                                   45
Asn His Gln Val Arg Leu Thr Ser Ser Phe Trp Met Trp Leu Ala Leu
                          55
Arg Lys Thr Glu Arg Ile Cys Xaa Arg Leu Val Met His Tyr Ser Tyr
                                          75
Cys His Ser Pro Lys Ala Lys Thr Lys Ser Leu
<210> 1108
<211> 47
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids
 Glu Val Ile Lys Val Met Asn Thr Cys Gln Cys Ser Gly Phe Thr Pro
                   5
                                       10
                                                           15
 Val Leu Gln His Phe Gly Glu Ala Lys Ala Gly Arg Ser Phe Glu Pro
              20
 Gln Asp Xaa Gly Thr Thr Xaa Gly Asn Ile Val Arg Pro Xaa Val
                              40
<210> 1109
 <211> 78
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
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<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1109

Trp Asn His Leu His Asp Leu Arg Val Ser Arg Asp Leu Leu Ser Arg

1 5 10 15

Ile Leu Lys Glu His Tyr Lys Phe Arg Glu Lys Ile Asn Ile Leu Ile 20 25 30

Ile Leu Lys Leu Arg Asn Phe Ser Ser Leu Arg Gly His Lys Val Phe
35 40 45

Val Val Tyr Thr Ser Asn Lys Ser Ser Ile Phe Xaa Asn Xaa Trp Xaa 50 55 60

Glu Xaa Xaa Trp Tyr Val Lys Lys Arg Pro Xaa Pro Xaa Gly
65 70 75

<210> 1110

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1110

Thr Trp Ser Leu His Lys Ile Gln Lys Leu Arg Trp Ala Trp Trp Cys

1 10 15

Val Pro Ile Val Pro Leu Leu Val Gly Leu Arg Gln Glu Xaa His Leu
20 25 30

Ser Pro Gly Gly Arg Gly Tyr Ser Xaa Pro Arg Val His Tyr Cys Thr
35 40 45

Pro Ala Arg Ala Arg Glu Arg Asp Pro Val Ser Ile Asn Lys 50 55 60

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<210> 1111
 <211> 44
 <212> PRT
 <213> Homo sapiens
 <400> 1111
 Phe Met Asn Leu Phe Pro Gly Lys Pro Tyr Asp Ser Thr Val Lys Gly
Val Arg Ile Val Lys Met Val Phe Ser Asp Gln Val Cys Ala His Ala
                                  25
Trp Pro Trp Ile Asp Ser Glu Met Arg Phe Phe Val
         35
                              40
<210> 1112
<211> 263
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1112
Gly Arg Ala Ile Met Ala Ala Ser Arg Leu Glu Leu Asn Leu Val Arg
  1
                                     10
Leu Leu Xaa Arg Cys Glu Ala Met Ala Ala Glu Lys Arg Asp Pro Asp
             20
                                                      30
Glu Trp Arg Leu Glu Lys Tyr Val Gly Ala Leu Glu Asp Met Leu Gln
         35
                              40
Ala Leu Lys Val His Ala Ser Lys Pro Ala Ser Glu Val Ile Asn Glu
     50
                         55
Tyr Ser Trp Lys Val Asp Phe Leu Lys Gly Met Leu Gln Ala Glu Lys
                     70
Leu Thr Ser Ser Ser Glu Lys Ala Leu Ala Asn Gln Phe Leu Ala Pro
                 85
Gly Arg Val Pro Thr Thr Ala Arg Glu Arg Val Pro Ala Thr Lys Thr
            100
                                105
```

Val His Leu Gln Ser Arg Ala Arg Tyr Thr Ser Glu Met Arg Ser Glu

120

115

Leu Leu Gly Thr Asp Ser Ala Glu Pro Glu Met Asp Val Arg Lys Arg 130 135 140

Thr Gly Val Ala Gly Ser Gln Pro Val Ser Glu Lys Gln Ser Ala Ala 145 150 155 160

Glu Leu Asp Leu Val Leu Gln Arg His Gln Asn Leu Gln Glu Lys Leu 165 170 175

Ala Glu Glu Met Leu Gly Leu Ala Arg Ser Leu Lys Thr Asn Thr Leu 180 185 190

Ala Ala Gln Ser Val Ile Lys Lys Asp Asn Gln Thr Leu Ser His Ser 195 200 205

Leu Lys Met Ala Asp Gln Asn Leu Glu Lys Leu Lys Thr Glu Ser Glu 210 215 220

Arg Leu Glu Gln His Thr Gln Lys Ser Val Asn Trp Leu Leu Trp Ala 225 230 235 240

Met Leu Ile Ile Val Cys Phe Ile Phe Ile Ser Met Ile Leu Phe Ile 245 250 255

Arg Ile Met Pro Lys Leu Lys 260

<210> 1113

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1113

Xaa Ala Xaa Xaa Trp Pro Pro Pro Lys Gly Asn Lys Ser Trp Ser
1 5 10 15

Ser Thr Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys
20 25 30

Arg Gln Lys Gly Xaa Phe Lys Ile 35 40

<210> 1114

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1114

Arg Lys Arg Leu Ala Phe Trp Thr Thr Gly Ile Arg Asp Trp Leu Thr 1 5 10 15

Trp Arg Thr His Ser Val Cys Ala Glu Xaa Arg Ala Leu Thr Ser Ala
20 25 30

Glu Ala Glu Val Gly Ala Cys Pro Arg Gly Leu Thr Arg Phe Ala Ser 35 40 45

Arg Pro Gln Pro Leu His Leu Leu Lys Ala Gln Glu Met Ile Arg Leu 50 55 60

Lys His Pro Pro Ile Leu Leu Phe Cys Leu Gly Trp Lys Thr Trp Pro 65 70 75 80

Arg Ser Trp Arg Pro Leu Leu His Leu Pro Asp Ser Gln Glu Ser Ser 85 90 95

Asp Gln Ser Cys Arg Thr Leu Leu Pro Leu Ala Leu Leu Pro Phe

100 105 110

Ser Ser Ser Trp Gly Pro Ser Leu Val Pro His Ser Leu 115 120 125

<210> 1115

<211> 109

<212> PRT

<213> Homo sapiens

<400> 1115

Ile Asp Lys Arg Val Pro Cys Asn Gln Leu Lys Ser Val Leu Cys Val

Cys Phe Val Ser Gly Ala Glu Tyr Asp Asn Leu Pro Thr Val Pro Leu
20 25 30

Phe Glu Val Gly Leu Ala Leu Glu Ser Tyr Cys Lys Cys Leu Ala Cys
35 40 45

Met Ile Val Pro Gly His Pro Thr Leu Glu Phe Ala Pro Ser Cys Phe 50 55 60

Ser Glu Asp Ala Val Asn Arg Phe Arg Phe Tyr Cys Leu Trp Ile Trp
65 70 75 80

Gly Val Thr Val Ala Leu Phe Thr Phe Leu Ile Lys Ile His Met Lys
85 90 95

Thr Arg Lys Lys Trp Leu Phe Leu Pro Arg Leu Cys Thr
100 105

<210> 1116

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

```
<400> 1116
 Gln Xaa Glu Leu Xaa Leu Lys Lys Lys Lys Ile Ile Cys Lys Ile
                                      10
 Asn Ser Gly Ile Val Val Leu Phe Lys Glu Met Phe Cys Lys Leu Ser
                                  25
 Ser His Tyr Ile Ile Phe Ile Val Leu Ser
         35
                              40
<210> 1117
<211> 62
<212> PRT
<213> Homo sapiens
<220>
<221> SITE '
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1117
Lys Xaa Ala Thr Pro Arg Pro Pro Gly Glu Thr Arg Pro Arg Met Pro
  1
                  5
                                      10
                                                          15
Arg Leu Phe Leu Phe His Leu Leu Glu Phe Cys Leu Leu Asn Gln
             20
Phe Ser Arg Ala Val Ala Ala Lys Trp Lys Asp Asp Val Ile Lys Leu
                             40
Cys Gly Arg Glu Leu Val Arg Ala Gln Ile Ala Ile Leu Gly
     50
                         55
<210> 1118
<211> 80
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE <222> (80)

PCT/US00/05988

<400> 1118

Pro Ser Val Glu Trp Glu Gln Gly His Ser Glu Arg Ala Glu Ser Pro 1 5 10 15

His Pro Pro Thr Leu Gln Gln Ala Ala Ala Gly Arg Leu Val Asn Cys 20 25 30

Arg Ala Gly Thr Gln Gln Gln Ala Ala Gly Thr Pro Xaa Leu Leu Gln
35 40 45

Leu Met Ala Val Cys Leu Ser Gln Asp Leu Glu Lys Thr Arg Leu Val 50 55 60

Tyr Glu Arg Ile Thr Ile Gly Thr Leu Phe Met Ser Phe Met Asn Xaa 65 70 75 80

<210> 1119

<211> 73

<212> PRT

<213> Homo sapiens

<400> 1119

Thr Gln Gln Ser Val Pro Val Ile Val His Pro Gly Val Ala Leu Leu 1 5 10 15

Ile Pro Ser Gly Met Tyr Leu Pro Ser Glu Leu His Phe Phe Lys Met 20 25 30

Leu Trp Val Val Gly Trp Glu Thr Ile Leu Gln Pro Ser Ser Asp Leu 35 40 45

Ile Asn Ser Leu Arg Asp Cys Lys Ala Glu Ser Thr Ser Gly His Ser 50 55 60

Trp Glu Thr Asp Pro Leu Val Met Lys 65 70

<210> 1120

<211> 77

<212> PRT

<213> Homo sapiens

<220>

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<221> SITE
  <222> (40)
  <223> Xaa equals any of the naturally occurring L-amino acids
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  <221> SITE
  <222> (49)
  <223> Xaa equals any of the naturally occurring L-amino acids
  <220>
  <221> SITE
  <222> (53)
  <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
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 <222> (57)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (63)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 1120
 Thr Ser Ser Ser Tyr Ser Asp Lys Gln Asp Thr Pro Pro His Pro Thr
Cys Ser Ile Ser Leu Ser Pro Leu Pro Gln Thr His Leu His Cys Ser
                                   25
 Ser Cys Arg Gly Ser Arg Lys Xaa Ile Leu Lys Ile Thr Arg Val Gly
          35
                               40
 Xaa Gly Ala Val Xaa Ser Gly Cys Xaa Xaa Gln His Phe Gly Xaa Gly
      50
                          55
                                               60
 Pro Gly Lys Ala Val His Phe Gly Val Lys Gly Phe Leu
  65
                      70
```

<210> 1121

<211> 66

<212> PRT

<213> Homo sapiens

<212> PRT

<213> Homo sapiens

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<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1121
Pro Xaa Leu Tyr Tyr Val Lys Leu Pro Ile Lys Tyr Phe Tyr Asp Tyr
Arg Phe Cys Ile Phe Val Tyr Asn Tyr Leu Lys Ser Phe Met Leu Tyr
                                 25
Leu Glu Phe Gln Pro Arg Asn His Thr Val Leu Lys Phe Ser Trp Gly
         35
                             40
Leu Leu Leu Ser Leu Asn His Leu Leu Asn Ile Tyr Leu Pro Lys Gly
                         55
                                              60
Asp Phe
 65
<210> 1122
<211> 41
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1122
Ser Gln His Phe Gly Asn Ala Glu Val Ser Gly Ser Pro Glu Val Arg
Ser Ser Arg Pro Ala Trp Ala Asn Met Val Lys Pro His Phe Leu Leu
             20
                                 25
Lys Lys Lys Leu Gly Gly Xaa
         35
                             40
<210> 1123
<211> 45
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<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1123
Lys Lys Lys Gly Cys Thr Lys Ile Ser Phe Xaa Gln Arg Leu Xaa
Lys Arg Lys Lys Arg Asn Thr Cys Val Leu Lys Thr Ile Cys Ile
             20
                                  25
Phe Ser Phe Leu Asp His Thr Val Ala Asn Tyr Cys Tyr
         35
                              40
<210> 1124
<211> 227
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1124
Arg Leu Pro Arg Asn Ile Thr Pro Glu Trp Leu Gln Pro Arg Arg Pro
Gly Val Pro Cys Phe Trp Ile Gln Phe Ser Xaa Val His Gly Phe Pro
             20
                                 25
Lys Glu Trp Ser Cys Xaa Phe Phe Gly Ile Val Asn Ile Leu Leu Lys
        35
                             40
Tyr Gly Ala Gln Ile Asn Glu Leu His Leu Ala Tyr Cys Leu Lys Tyr
    50
                         55
                                             60
```

Glu Lys Phe Ser Ile Phe Arg Tyr Phe Leu Arg Lys Gly Cys Ser Leu

65 70 75 80

Gly Pro Trp Asn His Ile Tyr Glu Phe Val Asn His Ala Ile Lys Ala 85 90 95

Gln Ala Lys Tyr Lys Glu Trp Leu Pro His Leu Leu Val Ala Gly Phe 100 105 110

Asp Pro Leu Ile Leu Leu Cys Asn Ser Trp Ile Asp Ser Val Ser Ile 115 120 125

Asp Thr Leu Ile Phe Thr Leu Glu Phe Thr Asn Trp Lys Thr Leu Ala 130 135 140

Pro Ala Val Glu Arg Met Leu Ser Ala Arg Ala Ser Asn Ala Trp Ile 145 150 155 160

Leu Gln Gln His Ile Ala Thr Val Pro Ser Leu Thr His Leu Cys Arg 165 170 175

Leu Glu Ile Arg Ser Ser Leu Lys Ser Glu Arg Leu Arg Ser Asp Ser 180 185 190

Tyr Ile Ser Gln Leu Pro Leu Pro Arg Ser Leu His Asn Tyr Leu Leu 195 200 205

Tyr Glu Asp Val Leu Arg Met Tyr Glu Val Pro Glu Leu Ala Ala Ile 210 215 220

Gln Asp Gly 225

<210> 1125

<211> 74

<212> PRT

<213> Homo sapiens

<400> 1125

Asn Val Ala Cys Asn Thr Val Leu Pro Ala Lys Phe Ser Thr Phe Cys

1 10 15

Asn Leu Phe Tyr Phe Phe Gly Cys Lys Ala Phe Leu Leu Ser Ile Val 20 25 30

Ile Leu Tyr Met Phe Cys Pro Ser Cys Ile Val Met Phe Gln Ser Ile 35 40 45

Ile Gln Leu Trp Leu Leu Lys Ser Tyr Ser Cys Glu Asp Leu Pro Leu 50 55 60

```
Phe Leu Leu Asp Cys Phe Ser Val Leu Tyr
                      70
<210> 1126
<211> 44
<212> PRT
<213> Homo sapiens
<400> 1126
Ile Ser Ser Thr Pro Ser Leu Thr Gln Ile Leu Val Phe Ile Met Asp
                                      10
Phe Phe Lys Leu Val Tyr Leu Ile Leu Ser Phe His Phe Trp Gln
His Met Asp Asp Phe Ile Phe Asn Asn His Ile Ser
         35
<210> 1127
<211> 38
<212> PRT
<213> Homo sapiens
<220>
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<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
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<220>
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<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1127
Leu Ser Pro Phe Glu Ala Ser Thr Asp Trp Xaa Lys Gln Ile Xaa Lys
1 5 10 15

Trp Asp Val Thr Gly Leu Ile Ser Thr Asn Arg Leu Phe Thr Thr Pro 20 25 30

Ser Trp Xaa Pro Val Ser

35

<210> 1128

<211> 70

<212> PRT

<213> Homo sapiens

<400> 1128

Gly Thr Glu Cys Thr His Gly Lys Lys Pro Cys Phe Val Phe Cys Ser 1 5 10 15

Leu Phe Phe Leu Ser Pro Phe Leu Ser Phe Met Ala Gly Asp Met Ile 20 25 30

Tyr Cys Ser His Pro Ser Trp Gly Leu Ile His His Thr Arg Val Ala
35 40 45

Arg Arg Leu Trp Gln Gln Leu Phe Ala Leu Asn Gln Thr Glu Lys Leu 50 55 60

Ser Ile Ile Lys Gly Arg 65 70

<210> 1129

<211> 50

<212> PRT

<213> Homo sapiens

<400> 1129

His Leu Pro Leu Ser Glu Thr His Ser Pro Ile Leu Asn Ala Tyr Ala 1 5 10 15

Val Gly Tyr His Leu Pro Leu Glu Val Leu Glu Ala Ile Ser Cys Arg
20 25 30

Ser Arg Val Ala Met Gly Leu Asn Tyr Tyr Tyr Pro Pro Lys Met Leu 35 40 45

Cys Leu

50

<210> 1130

<211> 76

<212> PRT

<213> Homo sapiens

<400> 1130

Phe Val Lys Gly Val Asn Cys Leu Ile Tyr Leu Thr Arg Phe Phe Lys
1 10 15

Gln Ile Leu Ile Gly His Ala Leu His Ala Arg Leu Trp Ala Trp Tyr
20 25 30

Leu Arg Val Leu Thr Gly Glu Ala Gly Ser Gly Asn Lys His Met Cys 35 40 45

Asn Cys Cys Val Asp Ser Leu Ile Gly Arg Lys Ser Ala Asn Lys Glu
50 55 60

Ala Asp Lys Leu Glu Asn Glu Arg Lys Val Met Cys
65 70 75

<210> 1131

<211> 121

<212> PRT

<213> Homo sapiens

<400> 1131

Thr Pro Tyr Tyr Leu Arg Val Arg Arg Lys Asn Pro Val Thr Ser Thr 1 5 . 10 . 15

Tyr Ser Lys Met Ser Leu Gln Leu Tyr Gln Val Asp Ser Arg Thr Tyr
20 25 30

Leu Leu Asp Phe Arg Ser Ile Asp Asp Glu Ile Thr Glu Ala Lys Ser 35 40 45

Gly Thr Ala Thr Pro Gln Arg Ser Gly Ser Val Ser Asn Tyr Arg Ser 50 55 60

Cys Gln Arg Ser Asp Ser Asp Ala Glu Ala Gln Gly Lys Ser Ser Glu
65 70 75 80

Val Ser Leu Thr Ser Ser Val Thr Ser Leu Asp Ser Ser Pro Val Asp 85 90 95

Leu Thr Pro Arg Pro Gly Ser His Thr Ile Glu Phe Phe Glu Met Cys
100 105 110

Ala Asn Leu Ile Lys Ile Leu Ala Gln 115 120

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<210> 1132
 <211> 63
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (61)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (63)
 <223> Xaa equals any of the naturally occurring L-amino acids
<400> 1132
Lys Thr Arg Gly Lys Leu Asp Lys Glu Pro Arg Pro Thr Gly Val Cys
                   5
                                      10
                                                           15
Cys Leu Gln Glu Thr His Leu Thr Cys Gly Gly Ile His Arg Leu Lys
              20
                                  25
Ile Lys Glu Trp Arg Lys Ile Phe Gln Ala Asn Gly Lys Gln Lys Lys
                                                   45
Ala Gly Val Ala Leu Leu Leu Ser Asp Lys Thr Xaa Xaa Ala Xaa
                          55
                                              60
<210> 1133
<211> 46
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1133
Pro Ser Gln Val Ser Leu Asn His Pro Asp Asp Leu Pro Val Glu Arg
                  5
                                     10
```

Ser Tyr Pro Ser Gln Val Tyr Phe Leu Met Arg Thr Gly His Ser Trp

25

30

20

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Asp Asp Leu Pro Ala Glu Arg Ser Asp Ile Phe Trp Val Xaa
          35
                               40
 <210> 1134
 <211> 65
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1134
Asn Ser Ala Arg Glu Val Ile Tyr Met Ile His Ser Gln Glu Leu Leu
Asp Arg Lys Xaa Gln Gly Pro Gln Pro Leu Cys Pro Leu Tyr Pro Gln
                                  25
Met Ala Leu Gly Ile Asn Ser Ser Gly Ile Ala Leu Lys Asn Ser Ala
         35
                              40
Ser Cys Phe Ala Glu Cys His Gly His Val Ile Leu Arg Ser His Asn
     50
Thr
 65
<210> 1135
<211> 30
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1135
Ser Cys Val Arg Gly Asn Leu Glu Pro Tyr Ile Asn Thr Tyr Ile Ile
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Lys Gly Lys Ile Leu Lys Val Asn Gly Xaa Lys Ala Ser Ile

30

20

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<210> 1136
 <211> 51
 <212> PRT
 <213> Homo sapiens
 <220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1136
Pro Glu Ser Arg His Ile Leu Val Cys Thr Gln Leu Trp Ala Lys Xaa
  1
                   5
                                                           15
Arg Trp Arg His Leu Ser Ser His Ala Glu Leu His Ser Arg Leu Arg
              20
                                   25
                                                       30
Thr Trp Val Gly Ser Ser Lys Val Ile Ala Lys Ala Pro Leu Ser Gly
         35
                              40
Gly Tyr Thr
     50
<210> 1137
<211> 48
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221>. SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1137
Ser Arg Leu Ser Phe Gln Asp Leu Ala Pro Ala Leu Gly Met Val Gly
                                      10
```

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Gly Lys Ala Lys Asn Leu Gly Ser Xaa Xaa Pro Trp Ala Leu Lys Asn 20 25 30

Val Val Leu Phe Lys Glu Gln Gly Ser Xaa Gln Gly Cys Phe Trp Gly 35 40 45
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<210> 1138
<211> 53
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids
.<400> 1138
Lys Met Cys Leu Phe Gln Leu Ser Gln Xaa Gly Asn Val Thr Gly Ile
Arg Trp Val Lys Ala Arg Asp Ala Ala Arg His Ser Thr Val His Arg
                                  25
Thr Thr Pro Thr Thr Lys Asn Tyr Leu Ala Gln Asn Val Asn Asn Ala
         35
                              40
Glu Val Glu Lys Xaa
     50
<210> 1139
<211> 86
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (17)
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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids
 Ile Gly Phe Gly His Asp Thr Asp Phe Leu Glu Ala Arg Cys Cys Phe
                                      10
 Xaa Ser Gly Met Gly Val His Asp Cys Pro Glu Gln Pro Arg Ser Gln
                                  25
 Phe Phe Arg Arg Leu Ser Ala Ile Ser Ala Gln Ala Phe Thr Gly Gln
                              40
Gly Gln Lys Gln Leu Xaa Gly Val Gly Gly Ala Ser Ser Thr Ala Ala
 Trp Pro Gln Glu Ile Gly Cys Ser Ser Ser Ser Ala Cys Gly Met Val
 65
                      70
                                          75
Arg Asn Asn Leu Gly Gly
                  85
<210> 1140
<211> 93
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1140
Ile Lys Lys Tyr Ile Phe His Phe Tyr Phe Ile Xaa Asn His Asn Tyr
                                      10
Leu Leu Arg Arg Cys Met His Leu Leu Asp Thr Val Gln Leu Leu Thr
Trp Asn Glu Ile Gly His Cys Cys Pro His Phe Leu Leu His Val Gly
                             40
Val His Ile Val Leu Asp Phe Leu Ser Asp Gly Leu Glu Asn Pro Val
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Ser Gln Lys Tyr Glu Ile Ile Arg Arg Ile Ile Val Gln Ser Tyr Val 65 70 75 80

50

Glu Arg Met Asn Tyr Leu Thr Ser Ser Ser Arg Asp Val 85 90

<210> 1141 <211> 63 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (56) -<223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (60) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1141 Lys Ile Ile Ile Phe Ser Val Val His Asn Asn Val Leu Asn Ile Leu 10 Leu Ile Lys Gly Ala Met Ser Leu Cys Met Val Leu Asn Val Ser Cys 20 Val Pro Phe Ala Gln Leu Arg Ile Leu Gln Leu Gly Phe Asn Glu Trp 40 Gly His Gly Ile Ile Met Gly Xaa Cys Lys Lys Xaa Lys Arg Gly 50 <210> 1142 <211> 57 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (49) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

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<400> 1142
 Phe Cys Val Glu Leu Ile Ser Gln Cys Arg Gly Lys Asn Ser Leu Gly
 Ser Ser Leu Asp Ile Thr Val His Arg Ala Ser His Gln Asp Asp Pro
              20
                                   25
 Thr Phe Tyr Gly Gly Pro Gly Ile Gly Ser Pro Glu Pro Ile Thr Gln
                            . 40
                                                   45
 Xaa Pro Ser Asp Gly Trp Gly Xaa Trp
 <210> 1143
 <211> 203
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (174)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<221> SITE

<222> (184)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (190)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1143

Ala Leu Ala Leu Cys Gln Cys Gly Val Pro Ala Cys Ser His Val Pro
1 5 10 15

Met Trp Ser Ala Arg Leu Leu Met Cys Pro Cys Gly Val Pro Ala Cys
20 25 30

Ser His Met Xaa Met Arg Ser Ala Xaa Leu Leu Thr His Ala His Val
35 40 45

Glu Cys Pro Pro Ala His Thr Cys Pro Cys Gly Val Pro Ala Cys Ser 50 55 60

His Thr Cys Pro Cys Gly Val Pro Thr Cys Ser Cys Ala His Val Glu 65 70 75 80

Cys Pro Pro Ala His Met Cys Arg Cys Gly Val Pro Pro Ala His Thr
85 90 95

Arg Ala His Val Glu Cys Pro Pro Ala His Xaa Cys Arg Cys Gly Val 100 105 110

Pro Ala Cys Ser His Val Pro Met Arg Ser Ala Arg Leu Leu Thr Arg 115 120 125

Ala Asp Ala Glu Cys Pro Pro Ala His Thr Cys Pro Cys Gly Val Pro 130 135 140

Ala Cys Ser His Val Pro Thr Arg Ser Ala Arg Leu Leu Thr Arg Ala 145 150 155 160

Asp Ala Glu Cys Pro Pro Ala His Thr Cys Xaa Arg Gly Xaa Pro Ala 165 170 175

Cys Ser His Xaa Pro Thr Arg Xaa Ala Arg Leu Leu Thr Xaa Ala His 180 185 190

Val Glu Cys Arg Leu Leu Thr Leu Pro Met Trp 195 200 <210> 1144

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1144

Lys Val Leu Leu Pro Tyr Leu Cys Ser Ser Phe Pro Met Ala Glu Phe 1 5 10 15

Cys Asn Tyr Ile Gln Asn Ile Val Tyr Ile Leu Phe Leu Lys Leu Tyr 20 25 30

Tyr Ile Gly Trp Ile Leu Leu Xaa Trp Gly Thr Gly Ala Tyr Ile Gln
35 40 45

Gly Ser Phe Leu Ser Thr Cys Leu Ser Thr Ile Cys Cys Val 50 55 60

<210> 1145

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1145

Asn Glu Ser Leu Thr Gln Phe His Ala Thr Phe Cys Leu Phe Ser Lys
1 5 10 15

Glu Arg Leu Leu Gly Leu Ser Val Thr Arg His Val Trp Ile Ala Ser 20 25 30

His Ile His Ile Met Pro Gly Ser Pro Gln Pro Thr His Val Leu Glu 35 40 45

Val Ala Thr Cys Gln Val Ser Val Phe Ser Leu Asn Ser Lys Trp Val 50 55 60

Asn His Met Asn Ser Thr Gly Pro Cys Glu Asn Gly Val Lys Ala Ser 65 70 75 80

Phe Val Pro Phe Ser Ile Ser Leu Thr His Met Cys Ser Leu Ser Thr 85 90 95

Ala Glu Asp Arg Phe Val Cys Ala Leu 100 105

<210> 1146 <211> 243 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (240) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1146 Lys Glu Thr Leu Glu Thr Ile Ser Asn Glu Glu Gln Thr Pro Leu Leu 10 Lys Lys Ile Asn Pro Thr Glu Ser Thr Ser Lys Ala Glu Glu Asn Glu 25 Lys Val Asp Ser Lys Val Lys Ala Phe Lys Lys Pro Leu Ser Val Phe 40 Lys Gly Pro Leu Leu His Ile Ser Pro Ala Glu Glu Leu Tyr Phe Gly 50 55 Ser Thr Glu Ser Gly Glu Lys Lys Thr Leu Ile Val Leu Thr Asn Val 65 70 Thr Lys Asn Ile Val Ala Phe Lys Val Arg Thr Thr Ala Pro Glu Lys 85 90 Tyr Arg Val Lys Pro Ser Asn Ser Ser Cys Asp Pro Gly Ala Ser Val 100 105 110 Asp Ile Val Val Ser Pro His Gly Gly Leu Thr Val Ser Ala Gln Asp 120 Arg Phe Leu Ile Met Ala Ala Glu Met Glu Gln Ser Ser Gly Thr Gly 130 135 Pro Ala Glu Leu Thr Gln Phe Trp Lys Glu Val Pro Arg Asn Lys Val 145 150 155 Met Glu His Arg Leu Arg Cys His Thr Val Glu Ser Ser Lys Pro Asn 165 170 175 Thr Leu Thr Leu Lys Asp Asn Ala Phe Asn Met Ser Asp Lys Thr Ser 180 185

Glu Asp Ile Cys Leu Gln Leu Ser Arg Leu Leu Glu Ser Asn Arg Lys

195 200 205

Leu Glu Asp Gln Val Gln Arg Cys Ile Trp Phe Gln Gln Leu Leu 210 215 220

Ser Leu Thr Met Leu Leu Leu Ala Phe Val Thr Ser Phe Phe Tyr Xaa 225 230 235 240

Leu Tyr Ser

<210> 1147

<211> 58

<212> PRT

<213> Homo sapiens

<400> 1147

Ser Val Lys Met Met Tyr Cys Ile Leu Lys Tyr Ser Asn Cys Ala Phe 1 5 10 15

Leu Tyr His Leu Gln Tyr Glu Lys Cys Gln Tyr Leu Val Pro Phe Ser 20 25 30

Gly Thr Ile Arg Phe Leu Leu Thr Leu Phe Ser Pro Leu Thr His Val 35 40 45

Ile Ser His Ser Asn Gln Glu Ser Arg Glu
50 55

<210> 1148

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1148

Xaa Xaa Asn Gly Leu Gly Ser Val Lys Asp Gly Glu Pro His Phe Val 1 5 10 15

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Val Val His Cys Thr Gly Tyr Ile Lys Ala Trp Pro Gln Gln Val Phe 20 25 30
```

Pro Ser Gln Met Met Thr Gln Pro Glu Val Phe Gln Glu Met Leu Ser 35 40 45

Met Leu Gly Asp Gln Ser Asn Ser Tyr Asn Asn Glu Glu Phe Pro Asp 50 55 60

Leu Thr Met Phe Pro Pro Phe Ser Glu
65 70

<210> 1149

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1149

Val Lys Trp Val Val Ser Phe Asn Ile Gln Asn Asn His Met Xaa Tyr
1 5 10 15

Xaa Leu Pro Leu Ser Phe Pro Phe Val Gln Met Arg Lys Val Arg Leu 20 25 30

Thr Glu Val Asn Trp Pro Arg Val Pro Gln Leu Val Ser Ala Glu Val
35 40 45

Gly Xaa His Asn Gln Ile Cys Ser Ala Xaa Asn Leu Cys Gln Ile Ser

50 55 60

Ser Lys Val Leu Gln Arg Ala Arg His Val Tyr Phe Ile Pro Ile 65 70 75

<210> 1150

<211> 138

<212> PRT

<213> Homo sapiens

<400> 1150

His Ser Glu Ile Gln Ser Val Cys Leu Thr Arg Leu Phe Asp Phe Lys

1 10 15

Ile Phe Cys Arg Lys Cys Phe Glu Asn Phe Glu Tyr Leu Lys Met Ala 20 25 30

Gly Val Val Leu His Phe Ala Ser Cys Ser Asp Thr Leu Phe Tyr Leu 35 40 45

Tyr Arg Tyr Ser Glu Phe Leu Phe Phe Ser Thr Cys Cys Thr Leu Ser 50 55 60

Lys Ala Lys Arg Lys Leu Ile Leu Gly Ser Arg Lys Ala Glu Ala Phe 65 70 75 80

Gly Glu Met Glu Thr Arg Met Cys Lys Asn Glu Thr Thr Thr Ser Arg
85 90 95

Ile Lys Lys Lys Cys Gln Ser Ser Arg Val Leu Ser Asp Val Gln
100 105 110

Glu Gly Gly Ile Ile Phe Met Glu His Ile Leu Trp Asn Thr Ala 115 120 125

Ile Arg Met Ser Glu Lys Leu Ile Cys Ser 130 135

<210> 1151

<211> 489

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1151 Arg Pro Arg Thr Arg Ala Pro Arg Gly Ala Arg Ser Ala Cys Thr Arg Gly Xaa Arg Arg Pro Val Pro Ser Leu Lys Val Leu Ser Pro Phe Ala Val Val Gln Met Arg Lys Lys Trp Lys Met Gly Gly Met Lys Tyr 35 40 Ile Phe Ser Leu Leu Phe Phe Leu Leu Glu Gly Gly Lys Thr Glu 50 55 Gln Val Lys His Ser Glu Thr Tyr Cys Met Phe Gln Asp Lys Lys Tyr 70 75 Arg Val Gly Glu Arg Trp His Pro Tyr Leu Glu Pro Tyr Gly Leu Val Tyr Cys Val Asn Cys Ile Cys Ser Glu Asn Gly Asn Val Leu Cys Ser 105 Arg Val Arg Cys Pro Asn Val His Cys Leu Ser Pro Val His Ile Pro 120 His Leu Cys Cys Pro Arg Cys Pro Glu Asp Ser Leu Pro Pro Val Asn 130 135 140 Asn Lys Val Thr Ser Lys Ser Cys Glu Tyr Asn Gly Thr Thr Tyr Gln 145 150 155 160 His Gly Glu Leu Phe Val Ala Glu Gly Leu Phe Gln Asn Arg Gln Pro 165 170 Asn Gln Cys Thr Gln Cys Ser Cys Ser Glu Gly Asn Val Tyr Cys Gly 185 Leu Lys Thr Cys Pro Lys Leu Thr Cys Ala Phe Pro Val Ser Val Pro 200 Asp Ser Cys Cys Arg Val Cys Arg Gly Asp Gly Glu Leu Ser Trp Glu 210 215 His Ser Asp Gly Asp Ile Phe Arg Gln Pro Ala Asn Arg Glu Ala Arg 225 230 240

His Ser Tyr His Arg Ser His Tyr Asp Pro Pro Pro Ser Arg Gln Ala

Gly Gly Leu Ser Arg Phe Pro Gly Ala Arg Ser His Arg Gly Ala Leu

250

255

245

260 265 270

Met Asp Ser Gln Gln Ala Ser Gly Thr Ile Val Gln Ile Val Ile Asn 275 280 285

Asn Lys His Lys His Gly Gln Val Cys Val Ser Asn Gly Lys Thr Tyr 290 295 300

Ser His Gly Glu Ser Trp His Pro Asn Leu Arg Ala Phe Gly Ile Val 305 310 315 320

Glu Cys Val Leu Cys Thr Cys Asn Val Thr Lys Gln Glu Cys Lys Lys 325 330 335

Ile His Cys Pro Asn Arg Tyr Pro Cys Lys Tyr Pro Gln Lys Ile Asp 340 345 350

Gly Lys Cys Cys Lys Val Cys Pro Glu Glu Leu Pro Gly Gln Ser Phe 355 360 365

Asp Asn Lys Gly Tyr Phe Cys Gly Glu Glu Thr Met Pro Val Tyr Glu 370 375 380

Ser Val Phe Met Glu Asp Gly Glu Thr Thr Arg Lys Ile Ala Leu Glu 385 390 395 400

Thr Glu Arg Pro Pro Gln Val Glu Val His Val Trp Thr Ile Arg Lys
405 410 415

Gly Ile Leu Gln His Phe His Ile Glu Lys Ile Ser Lys Arg Met Phe 420 425 430

Glu Glu Leu Pro His Phe Lys Leu Val Thr Arg Thr Thr Leu Ser Gln
435 440 445

Trp Lys Ile Phe Thr Glu Gly Glu Ala Gln Ile Ser Gln Met Cys Ser 450 455 460

Ser Arg Val Cys Arg Thr Glu Leu Glu Asp Leu Val Lys Val Leu Tyr 465 470 475 480

Leu Glu Arg Ser Glu Lys Gly His Cys 485

<210> 1152

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1152

Ile Asn Phe Leu Thr Ile Gly Phe Tyr Gly Val Gly His Asn Phe Trp

1 10 15

Leu Tyr Phe Lys Asn Phe Phe Leu Gly Gly Gly Val Leu Gly Ser Gly 20 25 30

His Gln Gly Arg Gly Val Ala Trp Gly Xaa Asp Pro Gly Ala Ser Pro 35 40 45

<210> 1153

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1153

Thr Ile Val Arg Asp Gly Ser Asn Asp Val Ile Cys Glu Asn Ser His

1 5 10 15

His Leu Pro Val Arg Gln Asn Leu Leu Lys Pro Pro Glu Ser Asn Leu 20 25 30

Asp Tyr Ile Arg Pro Phe Phe Thr His Lys Lys Ile Leu Tyr Gly Ile 35 40 45

<210> 1154

<211> 344

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE <222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (314)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1154

Ser Lys Lys Leu Thr Arg Pro Leu Val Met Lys Thr Gly Arg Pro Ala 1 5 10 15

Gly Lys Gly Ser Ile Thr Ile Ser Ala Glu Glu Ile Lys Asp Asn Arg
20 25 30

Val Val Leu Phe Glu Met Glu Ala Arg Lys Leu Asp Asn Lys Asp Leu 35 40 45

Phe Gly Lys Ser Asp Pro Tyr Leu Glu Phe His Lys Gln Thr Ser Asp 50 55 60

Gly Asn Trp Leu Met Val His Arg Thr Glu Val Val Lys Asn Asn Leu 65 70 75 80

Asn Pro Val Trp Xaa Pro Phe Xaa Ile Ser Leu Asn Ser Leu Cys Xaa 85 90 95

Gly Asp Met Asp Lys Thr Ile Lys Val Glu Cys Tyr Asp Tyr Asp Asn 100 105 110

Asp Gly Ser His Asp Leu Ile Gly Thr Phe Gln Thr Thr Met Thr Lys
115 120 125

Leu Lys Glu Ala Ser Arg Ser Ser Pro Val Glu Xaa Glu Cys Ile Asn 130 135 140

Glu Lys Lys Arg Gln Lys Lys Lys Ser Tyr Lys Asn Ser Gly Val Ile 145 150 155 160

Ser Val Lys Gln Cys Glu Ile Thr Val Glu Cys Thr Phe Leu Asp Tyr

165 170 175

Ile Met Gly Cys Gln Leu Asn Phe Thr Val Gly Val Asp Phe Thr 180 185 190

Gly Ser Asn Gly Asp Pro Arg Ser Pro Asp Ser Leu His Tyr Ile Ser 195 200 205

Pro Asn Gly Val Asn Glu Tyr Leu Thr Ala Leu Trp Ser Val Gly Leu 210 215 220

Val Ile Gln Asp Tyr Asp Ala Asp Lys Met Phe Pro Ala Phe Gly Phe 225 230 235 240

Gly Ala Gln Ile Pro Pro Gln Trp Gln Val Ser His Glu Phe Pro Met 245 250 255

Asn Phe Asn Pro Ser Asn Pro Tyr Cys Asn Gly Ile Gln Gly Ile Val 260 265 270

Glu Ala Tyr Arg Ser Cys Leu Pro Gln Ile Lys Leu Tyr Gly Pro Thr 275 280 285

Asn Phe Ser Pro Ile Ile Asn His Val Ala Arg Phe Ala Ala Ala 290 295 300

Thr Gln Gln Gln Thr Ala Ser Gln Tyr Xaa Val Leu Leu Ile Ile Thr 305 310 315 320

Asp Gly Val Ile Thr Asp Leu Asp Glu Thr Arg Gln Ala Ile Val Asn 325 330 335

Ala Ser Ser Cys Leu Cys Pro Ser 340

<210> 1155

<211> 120

<212> PRT

<213> Homo sapiens

<400> 1155

Tyr Phe Ile Glu Gly Leu Cys Ala Lys Asn Tyr Ala Tyr Leu Tyr Ile

1 10 15

Gly Gln Leu Ser Leu Ile Ile Tyr Leu Leu Lys Leu His Val Tyr His
20 25 30

Ile Ser Leu Ser Gly His Ile Gln Cys His Val Asp Val Pro Leu Ser
35 40 45

Phe Ile Glu Lys Leu Pro His Ser Pro Cys Leu Leu Phe Ser Ala Met 50 55 60

Pro Gln Gly Ser Glu Leu Ser Thr Thr Asp Ser Cys Gly Phe Ser Glu 65 70 75 80

Ala Ala His Cys Gln Gly Gln Ala Glu Arg Gly Pro Ala Cys Cys Gly 85 90 95

Gly Cys Leu Ala Gln Met Ser Ile Tyr Leu Pro Pro Ser His Leu Ala 100 105 110

Ser Cys Pro Leu Asp Met Cys Cys 115 120

<210> 1156

<211> 469

<212> PRT

<213> Homo sapiens

<400> 1156

Gly Gly Trp Arg Trp Lys Leu Arg Glu Ser Gly Ala Ile Ala Pro Arg

1 5 10 15

Asp Ser Gln Ser Arg Pro Leu Gln Ser Leu Arg Gln Leu Ala Leu Arg 20 25 30

Val Gly Val Ala Pro Ala Ala Met Ser Gly Gly Val Tyr Gly Gly 35 40 45

Asp Glu Val Gly Ala Leu Val Phe Asp Ile Gly Ser Tyr Thr Val Arg 50 55 60

Ala Gly Tyr Ala Gly Glu Asp Cys Pro Lys Val Asp Phe Pro Thr Ala 65 70 75 80

Ile Gly Met Val Val Glu Arg Asp Asp Gly Ser Thr Leu Met Glu Ile 85 90 95

Asp Gly Asp Lys Gly Lys Gln Gly Gly Pro Thr Tyr Tyr Ile Asp Thr 100 105 110

Asn Ala Leu Arg Val Pro Arg Glu Asn Met Glu Ala Ile Ser Pro Leu 115 120 125

Lys Asn Gly Met Val Glu Asp Trp Asp Ser Phe Gln Ala Ile Leu Asp 130 135 140

His Thr Tyr Lys Met His Val Lys Ser Glu Ala Ser Leu His Pro Val Leu Met Ser Glu Ala Pro Trp Asn Thr Arg Ala Lys Arg Glu Lys Leu Thr Glu Leu Met Phe Glu His Tyr Asn Ile Pro Ala Phe Phe Leu Cys Lys Thr Ala Val Leu Thr Ala Phe Ala Asn Gly Arg Ser Thr Gly Leu Ile Leu Asp Ser Gly Ala Thr His Thr Thr Ala Ile Pro Val His Asp Gly Tyr Val Leu Gln Gln Gly Ile Val Lys Ser Pro Leu Ala Gly Asp Phe Ile Thr Met Gln Cys Arg Glu Leu Phe Gln Glu Met Asn Ile Glu Leu Val Pro Pro Tyr Met Ile Ala Ser Lys Glu Ala Val Arg Glu Gly Ser Pro Ala Asn Trp Lys Arg Lys Glu Lys Leu Pro Gln Val Thr Arg Ser Trp His Asn Tyr Met Cys Asn Cys Val Ile Gln Asp Phe Gln Ala Ser Val Leu Gln Val Ser Asp Ser Thr Tyr Asp Glu Gln Val Ala Ala Gln Met Pro Thr Val His Tyr Glu Phe Pro Asn Gly Tyr Asn Cys Asp Phe Gly Ala Glu Arg Leu Lys Ile Pro Glu Gly Leu Phe Asp Pro Ser Asn Val Lys Gly Leu Ser Gly Asn Thr Met Leu Gly Val Ser His Val Val Thr Thr Ser Val Gly Met Cys Asp Ile Asp Ile Arg Pro Gly Leu Tyr Gly Ser Val Ile Val Ala Gly Gly Asn Thr Leu Ile Gln Ser Phe 

Thr Asp Arg Leu Asn Arg Glu Leu Ser Gln Lys Thr Pro Pro Ser Met

Arg Leu Lys Leu Ile Ala Asn Asn Thr Thr Val Glu Arg Arg Phe Ser 420 425 430

Ser Trp Ile Gly Gly Ser Ile Leu Ala Ser Leu Gly Thr Phe Gln Gln 435 440 445

Met Trp Ile Ser Lys Gln Glu Tyr Glu Glu Gly Gly Lys Gln Cys Val 450 455 460

Glu Arg Lys Cys Pro 465

<210> 1157

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1157

Thr Ala Leu Cys Pro Arg Ile His Glu Val Pro Leu Leu Glu Pro Leu

1 5 10 15

Val Cys Xaa Lys Ile Ala Gln Glu Arg Leu Thr Val Leu Leu Phe Leu 20 25 30

Glu Asp Cys Ile Ile Thr Ala Cys Gln Glu Gly Leu Ile Cys Thr Trp 35 40 45

Xaa Arg Pro Gly Lys Ala Phe Thr Asp Glu Glu Thr Glu Ala Gln Thr 50 55 60

Gly Glu Gly Ser Trp Pro Arg Ser Pro Ser Lys Ser Val Val Glu Gly 65 70 75 80

Ile Ser Ser Gln Pro Gly Asn Ser Pro Ser Gly Thr Val Val
85 90

<211> 114

<212> PRT

<213> Homo sapiens

<400> 1158

Leu Ser Pro Gln Trp Thr His Leu Leu Val Lys Gly Ala Val Val Leu l 1 5 10 15

Cys Gly Ser Gln Phe Thr Ser Phe Pro Lys Ile Gln Cys Asp His Pro 20 25 30

Val Asn Gly His Thr Ser Ser Glu Ile Asn Phe Gln Asn Leu Cys Ser 35 40 45

Ser Ser Tyr Pro Leu Arg Val Ile Met Ala Asn Lys Gln Lys Ala Leu 50 55 60

Val Gln Ala Pro Pro Asn Thr Leu Asn Leu Asn Leu Asn Met Leu Lys
65 70 75 80

Phe Glu Asn Lys Glu Thr Phe Phe Ile Ser Leu Ser Gly Leu Ser Leu 85 90 95

Val Leu Met Gly Leu Leu Met Ala Phe Gln Ser Val Ala Glu Ala Ile 100 105 110

Ile Phe

<210> 1159

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1159

Pro Trp Gly Ala Trp Arg Gln Gly Ala Arg Ala Ala Gln Ser Pro Phe

1 5 10 15

Ser Ile Pro Asn Ser Ser Ser Val Pro Tyr Gly Ser Gln Asp Ser Val

20 25 30

His Ser Ser Pro Glu Asp Gly Gly Gly Kaa Asp Arg Xaa Gly Gly
35 40 45

Thr Gly Gly Pro Arg Leu Val Ile Gly Ser Leu Pro Ala His Leu Ser 50 55 60

Pro His Met Phe Gly Gly Phe Lys Cys Pro Val Cys Ser Lys Phe Val 65 70 75 80

Ser Ser Asp Glu Met Asp Leu His Leu Val Met Cys Leu Thr Lys Pro 85 90 95

Arg Ile Thr Tyr Asn Glu Asp Val Leu Ser Lys Asp Ala Gly Glu Cys 100 105 110

Ala Ile Cys Leu Glu Glu Leu Gln Gln Gly Asp Thr Ile Ala Arg Leu 115 120 125

Pro Cys Leu Cys Ile Tyr His Lys Gly Cys Ile Asp Glu Trp Phe Glu 130 135 140

Val Asn Arg Ser Cys Pro Glu His Pro Ser Asp 145 150 155

<210> 1160

<211> 337

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1160

Cys Leu Gly Cys Lys Pro Asp Gln Pro Leu Arg Ala Glu Gly Arg Leu
1 5 10 15

Leu Ala Pro Ser Gly Asn Pro Ala Pro Ser Pro Gly Ser Glu Arg Leu 20 25 30

Ala Gly Asp Asp Thr Xaa Ser Ala Pro Ala Ala Pro Ser Xaa Gly Cys 35 40 45

Gly Lys Arg Arg Glu Ser Asp Ala Gly Ala Gly Glu Arg Ala Ser
50 55 60

Val Arg Thr Gly Ser Gly Arg Arg Gly Gly Ala Asn His Gly Arg Gly 65 70 75 80

Gln Arg Ala Asp Pro Ala Glu Pro Pro Ala Ala Gln Arg Arg Ala 85 90 95

Leu Pro Tyr Arg Arg His Gly Gly Thr Ala Ser Gly Lys Ser Ser Val

Cys Ala Lys Ile Val Gln Leu Leu Gly Gln Asn Glu Val Asp Tyr Arg 115 120 125

Gln Lys Gln Val Val Ile Leu Ser Gln Asp Ser Phe Tyr Arg Val Leu 130 135 140

Thr Ser Glu Gln Lys Ala Lys Ala Leu Lys Xaa Gln Phe Asn Phe Asp 145 150 155 160

His Pro Asp Ala Phe Asp Asn Glu Xaa Ile Leu Lys Thr Leu Lys Glu 165 170 175

Ile Thr Glu Gly Lys Thr Val Gln Ile Pro Val Tyr Asp Phe Val Ser 180 185 190

His Ser Arg Lys Glu Glu Thr Val Thr Val Tyr Pro Ala Asp Val Val 195 200 205

Leu Phe Glu Gly Ile Leu Ala Phe Tyr Ser Gln Glu Val Arg Asp Leu 210 215 220

Phe Gln Met Lys Leu Phe Val Asp Thr Asp Ala Asp Thr Arg Leu Ser 235 240

Arg Arg Val Leu Arg Asp Ile Ser Glu Arg Gly Arg Asp Leu Glu Gln
245 250 255

Ile Leu Ser Gln Tyr Ile Thr Phe Val Lys Pro Ala Phe Glu Glu Phe 260 265 270

Cys Leu Pro Thr Lys Lys Tyr Ala Asp Val Ile Ile Pro Arg Gly Ala 275 280 285

Asp Asn Leu Val Ala Ile Asn Leu Ile Val Gln His Ile Gln Asp Ile 290 295 300

Leu Asn Gly Gly Pro Ser Lys Arg Gln Thr Asn Gly Cys Leu Asn Gly 305 310 315 320

Tyr Thr Pro Ser Arg Lys Arg Gln Ala Ser Glu Ser Ser Ser Arg Pro 325 330 335

His

<210> 1161

<211> 330

<212> PRT

<213> Homo sapiens

<400> 1161

Ala Arg Gly Met Phe Gly Leu Gly Asn Glu Phe Lys Pro Leu Asn Val 1 5 10 15

Gln Glu Arg Glu Ala Gln Phe Gly Thr Thr Ala Glu Ile Tyr Ala Tyr
20 25 30

Arg Glu Glu Gln Asp Phe Gly Ile Glu Ile Val Lys Val Lys Ala Ile 35 40 45

Gly Arg Gln Arg Phe Lys Val Leu Glu Leu Arg Thr Gln Ser Asp Gly 50 55 60

Ile Gln Gln Ala Lys Val Gln Ile Leu Pro Glu Cys Val Leu Pro Ser
65 70 75 80

Thr Met Ser Ala Val Gln Leu Glu Ser Leu Asn Lys Cys Gln Ile Phe
85 90 95

Pro Ser Lys Pro Val Ser Arg Glu Asp Gln Cys Ser Tyr Lys Trp Trp
100 105 110

Gln Lys Tyr Gln Lys Arg Lys Phe His Cys Ala Asn Leu Thr Ser Trp 115 120 125

Pro Arg Trp Leu Tyr Ser Leu Tyr Asp Ala Glu Thr Leu Met Asp Arg

130 135 140

Ile Lys Lys Gln Leu Arg Glu Trp Asp Glu Asn Leu Lys Asp Asp Ser 145 150 155 160

Leu Pro Ser Asn Pro Ile Asp Phe Ser Tyr Arg Val Ala Ala Cys Leu 165 170 175

Pro Ile Asp Asp Val Leu Arg Ile Gln Leu Leu Lys Ile Gly Ser Ala 180 185 190

Ile Gln Arg Leu Arg Cys Glu Leu Asp Ile Met Asn Lys Cys Thr Ser 195 200 205

Leu Cys Cys Lys Gln Cys Gln Glu Thr Glu Ile Thr Thr Lys Asn Glu 210 215 220

Ile Phe Ser Leu Ser Leu Cys Gly Pro Met Ala Ala Tyr Val Asn Pro 225 230 235 240

His Gly Tyr Val His Glu Thr Leu Thr Val Tyr Lys Ala Cys Asn Leu 245 250 255

Asn Leu Ile Gly Arg Pro Ser Thr Glu His Ser Trp Phe Pro Gly Tyr 260 265 270

Ala Trp Thr Val Ala Gln Cys Lys Ile Cys Ala Ser His Ile Gly Trp 275 280 285

Lys Phe Thr Ala Thr Lys Lys Asp Met Ser Pro Gln Lys Phe Trp Gly 290 295 300

Leu Thr Arg Ser Ala Leu Leu Pro Thr Ile Pro Asp Thr Glu Asp Glu 305 310 315 320

Ile Ser Pro Asp Lys Val Ile Leu Cys Leu 325 330

<210> 1162

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE <222> (148) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (153) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (165) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1162 Cys Arg Lys Thr Ala Gln Pro Thr Ala Ala Glu Met Lys Tyr Lys Asn 5 Leu Met Ala Arg Ala Leu Tyr Asp Asn Val Pro Glu Cys Ala Glu Glu 20 25 30 Leu Ala Phe Arg Lys Gly Asp Ile Leu Thr Val Ile Glu Gln Asn Thr 35 40 Gly Gly Leu Glu Gly Trp Trp Leu Cys Ser Leu His Gly Arg Gln Gly Ile Val Pro Gly Asn Arg Val Lys Leu Leu Ile Gly Pro Met Gln Glu 75 Thr Ala Ser Ser His Glu Gln Pro Ala Ser Gly Leu Met Gln Gln Thr 85 Phe Gly Gln Gln Lys Leu Tyr Gln Val Pro Asn Pro Thr Gly Leu Leu 100 105 Pro Pro Arg His Pro Phe Leu Pro Lys Val Pro Thr Leu Ser Leu Thr 115 120 125 Gln Lys Ile Lys Gly Glu Ile Phe Thr Gln Arg Phe Pro Gln Leu Xaa 130 135 140

Ala Gln Arg Xaa Thr Pro Lys Gly Xaa Lys Gly Gly Val Leu Phe Arg

155

160

150

Val Ala Pro Pro Xaa 165

145

<211> 195

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1163

Phe Leu Asn Arg Glu Leu Ile Val Lys Ser Ser Met Ala Thr Gly Gly
1 5 10 15

Gly Pro Phe Glu Asp Gly Met Asn Asp Gln Asp Leu Pro Asn Trp Ser 20 25 30

Asn Glu Asn Val Asp Asp Arg Leu Asn Asn Met Asp Trp Gly Ala Gln
35 40 45

Gln Lys Lys Ala Asn Arg Ser Ser Glu Lys Asn Lys Lys Phe Gly
50 55 60

Val Glu Ser Asp Lys Arg Val Thr Asn Asp Ile Ser Pro Glu Ser Ser 65 70 75 80

Pro Gly Val Gly Arg Arg Thr Lys Thr Pro His Thr Phe Pro His
85 90 95

Ser Arg Tyr Met Ser Gln Met Ser Val Pro Glu Gln Ala Glu Leu Glu 100 105 110

Lys Leu Lys Gln Arg Ile Asn Phe Ser Asp Leu Asp Gln Arg Ser Ile 115 120 125

Gly Ser Asp Ser Gln Gly Arg Ala Thr Ala Ala Asn Asn Lys Arg Gln 130 135 140

Leu Ser Glu Asn Arg Lys Pro Phe Asn Phe Leu Pro Met Gln Ile Asn 145 150 155 160

Thr Asn Lys Glu Gln Arg Cys Ile Leu Gln Val Pro Gln Thr Glu Glu 165 170 175

Thr Val Gly Phe Ser Thr Val Leu Lys Xaa Cys Phe Ala Phe Trp Phe 180 185 190

Leu Ser Asn

195

<210> 1164

<211> 300

<212> PRT

<213> Homo sapiens

<400> 1164

Arg Arg Pro Ser Ala Arg Arg Glu Leu Gly Lys Gly Arg Gln Arg Arg

1 10 15

Arg Arg Gln Arg Gln Ser Pro Val Pro Arg Pro Ser Asp Arg
20 25 30

Pro Ala Gly Leu Gly Leu Ala Lys Pro Ala Arg Arg Ala Leu Pro Thr 35 40 45

Pro Glu Pro Gly Arg Lys Ser Ser Asp Ser Ser Leu Ala Ser Pro Gly 50 55 60

Ala Ala Leu Gln Thr Gly Pro Val Val Arg Gly Ser Gly Ala Asp Pro 65 70 75 80

Glu Ala Gly Phe Ala Gln Pro Pro Thr Arg Ala Gly Pro Leu Glu Gly
85 90 95

Ala Phe Asn Ser Arg Thr Arg Gln Ala Thr Met Thr Glu Asn Ser Thr 100 105 110

Ser Ala Pro Ala Ala Lys Pro Lys Arg Ala Lys Ala Ser Lys Lys Ser 115 120 125

Thr Asp His Pro Lys Tyr Ser Asp Met Ile Val Ala Ala Ile Gln Ala 130 135 140

Glu Lys Asn Arg Ala Gly Ser Ser Arg Gln Ser Ile Gln Lys Tyr Ile 145 150 155 160

Lys Ser His Tyr Lys Val Gly Glu Asn Ala Asp Ser Gln Ile Lys Leu 165 170 175

Ser Ile Lys Arg Leu Val Thr Thr Gly Val Leu Lys Gln Thr Lys Gly
180 185 190

Val Gly Ala Ser Gly Ser Phe Arg Leu Ala Lys Ser Asp Glu Pro Lys 195 200 205

Lys Ser Val Ala Phe Lys Lys Thr Lys Lys Glu Ile Lys Lys Val Ala 210 215 220

Thr Pro Lys Lys Ala Ser Lys Pro Lys Lys Ala Ala Ser Lys Ala Pro 225 230 235 240

Thr Lys Lys Pro Lys Ala Thr Pro Val Lys Lys Ala Lys Lys Leu 245 250 255

Ala Ala Thr Pro Lys Lys Ala Lys Lys Pro Lys Thr Val Lys Ala Lys 260 265 270

Pro Val Lys Ala Ser Lys Pro Lys Lys Ala Lys Pro Val Lys Pro Lys 275 280 285

Ala Lys Ser Ser Ala Lys Arg Ala Gly Lys Lys Lys 290 295 300

<210> 1165

<211> 150

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1165

Ser Thr His Ala Ser Ala His Ala Ser Gly Lys Gln Glu Ile Val Asp 1 5 10 15

Pro Pro Ser Lys Met Glu Asp Gly Lys Pro Val Trp Ala Pro His Pro 20 25 30

Thr Asp Gly Phe Gln Met Gly Asn Ile Val Asp Ile Gly Pro Asp Ser 35 40 45

Leu Thr Ile Glu Pro Leu Asn Gln Lys Gly Lys Thr Phe Leu Ala Leu 50 55 60

Ile Asn Gln Val Phe Pro Ala Glu Glu Asp Ser Lys Lys Asp Val Glu 65 70 75 80

Asp Asn Cys Ser Leu Met Tyr Leu Asn Glu Ala Thr Leu Leu His Asn 85 90 95

Ile Lys Val Arg Tyr Ser Lys Asp Arg Ile Tyr Thr Tyr Val Ala Asn
100 105 110

Ile Leu Xaa Ala Val Asn Pro Tyr Phe Asp Ile Pro Lys Ile Tyr Leu 115 120 125

Gln Ser Ile Lys Ser Tyr Gln Gly Lys Ser Leu Gly Thr Arg Pro Pro 130 135 140 Pro Gly Leu Cys Asn Cys 145 150

<210> 1166

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1166

Ala Ile Trp Pro Leu Arg Gly Leu Leu Arg Tyr Arg Gln Phe Cys Gly
1 5 10 15

Ala Ala Ser Ala Ala Pro Arg Arg Ser Asn Met Leu Arg Ile Pro Leu 20 25 30

Arg Arg Ala Leu Val Xaa Leu Ser Asn Lys Ser Ser Lys Gly Cys Val
35 40 45

Arg Thr Thr Ala Thr Ala Ala Ser Asn Leu Ile Glu Val Phe Val Asp 50 55 60

Gly Gln Ser Val Met Val Glu Pro Gly Thr Thr Val Leu Gln Ala Cys
65 70 75 80

Glu Lys Val Gly

<210> 1167

<211> 348

<212> PRT

<213> Homo sapiens

<400> 1167

Leu Ile Phe Cys Gly Cys Trp Leu Phe Ala Ser Leu Thr Val Met Glu

1 5 10 . 15

Ala Ala His Phe Phe Glu Gly Thr Glu Lys Leu Leu Glu Val Trp Phe 20 25 30

Ser Arg Gln Gln Pro Asp Ala Asn Gln Gly Ser Gly Asp Leu Arg Thr 35 40 45

Ile Pro Arg Ser Glu Trp Asp Ile Leu Leu Lys Asp Val Gln Cys Ser 50 55 60

Ile Ile Ser Val Thr Lys Thr Asp Lys Gln Glu Ala Tyr Val Leu Ser
65 70 75 80

Glu Ser Ser Met Phe Val Ser Lys Arg Arg Phe Ile Leu Lys Thr Cys 85 90 95

Gly Thr Thr Leu Leu Lys Ala Leu Val Pro Leu Lys Leu Ala
100 105 110

Arg Asp Tyr Ser Gly Phe Asp Ser Ile Gln Ser Phe Phe Tyr Ser Arg 115 120 125

Lys Asn Phe Met Lys Pro Ser His Gln Gly Tyr Pro His Arg Asn Phe 130 135 140

Gln Glu Glu Ile Glu Phe Leu Asn Ala Ile Phe Pro Asn Gly Ala Ala 145 150 155 160

Tyr Cys Met Gly Arg Met Asn Ser Asp Cys Trp Tyr Leu Tyr Thr Leu 165 170 175

Asp Phe Pro Glu Ser Arg Val Ile Ser Gln Pro Asp Gln Thr Leu Glu 180 185 190

Ile Leu Met Ser Glu Leu Asp Pro Ala Val Met Asp Gln Phe Tyr Met 195 200 205

Lys Asp Gly Val Thr Ala Lys Asp Val Thr Arg Glu Ser Gly Ile Arg 210 215 220

Asp Leu Ile Pro Gly Ser Val Ile Asp Ala Thr Met Phe Asn Pro Cys 225 230 235 240

Gly Tyr Ser Met Asn Gly Met Lys Ser Asp Gly Thr Tyr Trp Thr Ile 245 250 255

His Ile Thr Pro Glu Pro Glu Phe Ser Tyr Val Ser Phe Glu Thr Asn 260 265 270

Leu Ser Gln Thr Ser Tyr Asp Asp Leu Ile Arg Lys Val Val Glu Val
275 280 285

Phe Lys Pro Gly Lys Phe Val Thr Thr Leu Phe Val Asn Gln Ser Ser 290 295 300

Lys Cys Arg Thr Val Leu Ala Ser Pro Gln Lys Ile Glu Gly Phe Lys 305 310 315 320 Arg Leu Asp Cys Gln Ser Ala Met Phe Asn Asp Tyr Asn Phe Val Phe 325 330 335

Thr Ser Phe Ala Lys Lys Gln Gln Gln Gln Gln Ser 340

<210> 1168

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1168

Ser Ser Gln Arg Leu Gln Gly Arg Ala Arg Ala Val Leu Ser Pro Pro 1 5 10 15

Ala Pro Xaa Ser Asn Val Gly Thr Gly Glu Lys Lys Val Thr Glu Ala
20 25 30

Trp Ile Ser Glu Asp Glu Asn Ser His Arg Thr Thr Ser Asp Arg Leu 35 40 45

Thr Val Met Glu Leu Pro Ser Pro Glu Ser Glu Glu Val His Glu Pro 50 55 60

Arg Leu Gly Glu Leu Leu Gly Asn Pro Glu Gly Gln Ser Leu Gly Ser 65 70 75 80

Ser Pro Ser Gln Asp Arg Gly Cys Asn Arg 85 90

<210> 1169

<211> 277

<212> PRT

<213> Homo sapiens

<400> 1169

Arg Ser Thr Arg Trp Arg Pro Lys Val Met Trp His Leu Leu Arg Arg

1 5 10 15

Tyr Met Ala Ser Arg Leu His Ser Leu Arg Met Gly Gly Tyr Leu Phe
20 25 30

Ser Gly Ser Gln Ala Pro Gln Leu Ser Pro Ala Leu Leu Arg Ala Leu 35 40 45

Gly Gln Lys Cys Pro Asn Leu Lys Arg Leu Cys Leu His Val Ala Asp 50 55 60

Leu Ser Met Val Pro Ile Thr Ser Leu Pro Ser Thr Leu Arg Thr Leu 65 70 75 80

Glu Leu His Ser Cys Glu Ile Ser Met Ala Trp Leu His Lys Gln Gln 85 90 95

Asp Pro Thr Val Leu Pro Leu Leu Glu Cys Ile Val Leu Asp Arg Val 100 105 110

Pro Ala Phe Arg Asp Glu His Leu Gln Gly Leu Thr Arg Phe Arg Ala 115 120 125

Leu Arg Ser Leu Val Leu Gly Gly Thr Tyr Arg Val Thr Glu Thr Gly 130 135 140

Leu Asp Ala Gly Leu Gln Glu Leu Ser Tyr Leu Gln Arg Leu Glu Val 145 150 155 160

Leu Gly Cys Thr Leu Ser Ala Asp Ser Thr Leu Leu Ala Ile Ser Arg 165 170 175

His Leu Pro Arg Cys Ala Gln Asp Pro Ala Asp Arg Glu Gly Leu Ser 180 185 190

Ala Pro Gly Leu Ala Val Leu Glu Gly Met Pro Ala Leu Glu Ser Leu 195 200 205

Cys Leu Gln Gly Pro Leu Val Thr Pro Glu Met Pro Ser Pro Thr Glu 210 215 220

Ile Leu Ser Ser Cys Leu Thr Met Pro Lys Leu Arg Val Leu Glu Leu 225 230 235 240

Gln Gly Leu Gly Trp Glu Gly Gln Glu Ala Glu Lys Ile Leu Cys Lys 245 250 255

Gly Leu Pro His Cys Met Val Ile Val Arg Ala Cys Pro Lys Glu Ser 260 265 270

Met Asp Trp Trp Met 275

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<210> 1170
<211> 489
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (349)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (351)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (356)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (362)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1170
Thr Arg Val Phe Lys Glu Leu Glu Asn Thr Gly Lys Leu Ile Cys Ser
                  5
                                      10
Pro Thr His Ile Asp Arg Val Arg Leu Phe Leu Met Gln Leu Arg Lys
             20
                                  25
                                                      30
Met Gln Thr Val Lys Lys Glu Gln Ala Ser Leu Asp Ala Ser Ser Asn
         35
Val Asp Lys Met Met Val Leu Asn Ser Ala Leu Thr Glu Val Ser Glu
                         55
Asp Ser Thr Thr Gly Glu Glu Leu Leu Ser Glu Gly Ser Val Gly
 65
                     70
                                         75
Lys Asn Lys Ser Ser Ala Cys Arg Arg Lys Arg Glu Phe Ile Pro Asp
                 85
                                      90
Glu Lys Lys Asp Ala Met Tyr Trp Glu Lys Arg Arg Lys Asn Asn Glu
            100
                                105
                                                     110
Ala Ala Lys Arg Ser Arg Glu Lys Arg Arg Leu Asn Asp Leu Val Leu
        115
                            120
                                                 125
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Glu Asn Lys Leu Ile Ala Leu Gly Glu Glu Asn Ala Thr Leu Lys Ala

Glu Leu Leu Ser Leu Lys Leu Lys Phe Gly Leu Ile Ser Ser Thr Ala Tyr Ala Gln Glu Ile Gln Lys Leu Ser Asn Ser Thr Ala Val Tyr Phe Gln Asp Tyr Gln Thr Ser Lys Ser Asn Val Ser Ser Phe Val Asp Glu His Glu Pro Ser Met Val Ser Ser Ser Cys Ile Ser Val Ile Lys His Ser Pro Gln Ser Ser Leu Ser Asp Val Ser Glu Val Ser Ser Val Glu His Thr Gln Glu Ser Ser Val Gln Gly Ser Cys Arg Ser Pro Glu Asn Lys Phe Gln Ile Ile Lys Gln Glu Pro Met Glu Leu Glu Ser Tyr Thr Arg Glu Pro Arg Asp Asp Arg Gly Ser Tyr Thr Ala Ser Ile Tyr Gln Asn Tyr Met Gly Asn Ser Phe Ser Gly Tyr Ser His Ser Pro Pro Leu Leu Gln Val Asn Arg Ser Ser Ser Asn Ser Pro Arg Thr Ser Glu Thr Asp Asp Gly Val Val Gly Lys Ser Ser Asp Gly Glu Asp Glu Gln Gln Val Pro Lys Gly Pro Ile His Ser Pro Val Glu Leu Lys His Val His Ala Thr Val Val Lys Val Pro Glu Val Asn Ser Ser Xaa Leu Xaa His Lys Leu Arg Xaa Lys Ala Lys Ala Met Xaa Ile Lys Val Glu Ala Phe Asp Asn Glu Phe Glu Ala Thr Gln Lys Leu Ser Ser Pro Ile Asp Met Thr Ser Lys Arg His Phe Glu Leu Glu Lys His Ser Ala Pro Ser Met 

Val His Ser Ser Leu Thr Pro Phe Ser Val Gln Val Thr Asn Ile Gln

405 410 415

Asp Trp Ser Leu Lys Ser Glu His Trp His Gln Lys Glu Leu Ser Gly 420 425 430

Lys Thr Gln Asn Ser Phe Lys Thr Gly Val Val Glu Met Lys Asp Ser 435 440 445

Gly Tyr Lys Val Ser Asp Pro Glu Asn Leu Tyr Leu Lys Gln Gly Ile 450 455 460

Ala Asn Leu Ser Ala Glu Val Val Ser Leu Lys Arg Leu Ile Ala Thr 465 470 475 480

Gln Pro Ile Ser Ala Ser Asp Ser Gly 485

<210> 1171

<211> 49

<212> PRT

<213> Homo sapiens

<400> 1171

Gly Gly Val Thr Lys Arg Gln Ile Leu His Met Ile Pro Leu Val Ile
1 5 10 15

Pro Arg Val Lys Phe Met Glu Thr Glu Ser Arg Lys Val Val Thr Ser 20 25 30

Gly Trp Glu Gly Glu Asn Val Glu Phe Asn Gly Tyr Arg Ile Leu Val 35 40 45

Leu

<210> 1172

<211> 442

<212> PRT

<213> Homo sapiens

<400> 1172

Ala Glu Ala Arg Ala Lys Ala Glu Ala Ala Gly Leu Arg Glu Ala Ala 1 5 10 15

Ala Arg Arg Ser Leu Ser Pro Ala Thr Met Ser Thr Lys Gln Ile
20 25 30

Thr Cys Arg Tyr Phe Met His Gly Val Cys Arg Glu Gly Ser Gln Cys 35 40 45

Leu Phe Ser His Asp Leu Ala Asn Ser Lys Pro Ser Thr Ile Cys Lys 50 55 60

Tyr Tyr Gln Lys Gly Tyr Cys Ala Tyr Gly Thr Arg Cys Arg Tyr Asp 65 70 75 80

His Thr Arg Pro Ser Ala Ala Ala Gly Gly Ala Val Gly Thr Met Ala 85 90 95

His Ser Val Pro Ser Pro Ala Phe His Ser Pro His Pro Pro Ser Glu
100 105 110

Val Thr Ala Ser Ile Val Lys Thr Asn Ser His Glu Pro Gly Lys Arg 115 120 125

Glu Lys Arg Thr Leu Val Leu Arg Asp Arg Asn Leu Ser Gly Met Ala 130 135 140

Glu Arg Lys Thr Gln Pro Ser Met Val Ser Asn Pro Gly Ser Cys Ser 145 150 155 160

Asp Pro Gln Pro Ser Pro Glu Met Lys Pro His Ser Tyr Leu Asp Ala 165 170 175

Ile Arg Ser Gly Leu Asp Asp Val Glu Ala Ser Ser Ser Tyr Ser Asn 180 185 190

Glu Gln Gln Leu Cys Pro Tyr Ala Ala Ala Gly Glu Cys Arg Phe Gly
195 200 205

Asp Ala Cys Phe Tyr Leu His Gly Glu Val Cys Glu Ile Cys Arg Leu 210 215 220

Gln Val Leu His Pro Phe Asp Pro Glu Gln Arg Lys Ala His Glu Lys 225 230 235 240

Ile Cys Met Leu Thr Phe Glu His Glu Met Glu Lys Ala Phe Ala Phe 245 250 255

Gln Ala Ser Gln Asp Lys Val Cys Ser Ile Cys Met Glu Val Ile Leu 260 265 270

Glu Lys Ala Ser Ala Ser Glu Arg Arg Phe Gly Ile Leu Ser Asn Cys 275 280 285

Asn His Thr Tyr Cys Leu Ser Cys Ile Arg Gln Trp Arg Cys Ala Lys 290 295 300 Gln Phe Glu Asn Pro Ile Ile Lys Ser Cys Pro Glu Cys Arg Val Ile 305 310 315 320

Ser Glu Phe Val Ile Pro Ser Val Tyr Trp Val Glu Asp Gln Asn Lys 325 330 335

Lys Asn Glu Leu Ile Glu Ala Phe Lys Gln Gly Met Gly Lys Lys Ala 340 345 350

Cys Lys Tyr Phe Glu Gln Gly Lys Gly Thr Cys Pro Phe Gly Ser Lys 355 360 365

Cys Leu Tyr Arg His Ala Tyr Pro Asp Gly Arg Leu Ala Glu Pro Glu 370 375 380

Lys Pro Arg Lys Gln Leu Ser Ser Gln Gly Thr Val Arg Phe Phe Asn 385 390 395 400

Ser Val Arg Leu Trp Asp Phe Ile Glu Asn Arg Glu Ser Arg His Val 405 410 415

Pro Asn Asn Glu Asp Val Asp Met Thr Glu Leu Gly Asp Leu Phe Met 420 425 430

His Leu Ser Gly Val Glu Ser Ser Glu Pro 435 440

<210> 1173

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1173

Leu Glu Phe Trp Leu Leu Cys Leu Xaa Ser Arg His Leu Leu Tyr Gln

1 5 10 15

Leu Leu Trp Asn Met Phe Ser Lys Glu Val Glu Leu Ala Asp Ser Met 20 25 30

Gln Thr Leu Phe Arg Gly Asn Ser Leu Ala Ser Lys Ile Met Thr Phe 35 40 45

Cys Phe Lys Val Tyr Gly Ala Thr Tyr Leu Gln Lys Leu Leu Xaa Pro 50 55 60

Leu Leu Arg Ile Val Ile Thr Ser Ser Asp Trp Gln His Val Ser Phe 65 70 75 80

Glu Val Asp Pro Thr Xaa Leu Glu Pro Ser Glu Ser Leu Glu Glu Asn 85 90 95

Gln Arg Asn Leu Leu Gln Met Thr Glu Lys Phe Phe His Ala Ile Ile 100 105 110

Ser Ser Ser Glu Phe Pro Pro Gln Leu Arg Ser Val Cys His Cys 115 120 125

Leu Tyr Gln Ala Thr Tyr His Ser Leu Leu Asn Lys Ala Thr 130 135 140

<210> 1174

<211> 385

<212> PRT

<213> Homo sapiens

<220> ·

<221> SITE

<222> (189)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (313)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1174

Pro Met Arg Arg Pro Arg Gly Glu Pro Gly Pro Arg Ala Pro Arg Pro
1 5 10 15

Thr Glu Gly Ala Thr Cys Ala Gly Pro Gly Glu Ser Trp Ser Pro Ser 20 25 30

Pro Asn Ser Met Leu Arg Val Leu Leu Ser Ala Gln Thr Ser Pro Ala

35 40 45

Arg Leu Ser Gly Leu Leu Leu Ile Pro Pro Val Gln Pro Cys Cys Leu 50 55 60

Gly Pro Ser Lys Trp Gly Asp Arg Pro Val Gly Gly Gly Pro Ser Ala
65 70 75 80

Gly Pro Val Gln Gly Leu Gln Arg Leu Leu Glu Gln Ala Lys Ser Pro 85 90 95

Gly Glu Leu Leu Arg Trp Leu Gly Gln Asn Pro Ser Lys Val Arg Ala 100 105 110

His His Tyr Ser Val Ala Leu Arg Arg Leu Gly Gln Leu Leu Gly Ser 115 120 125

Arg Pro Arg Pro Pro Pro Val Glu Gln Val Thr Leu Gln Asp Leu Ser 130 135 140

Gln Leu Ile Ile Arg Asn Cys Pro Ser Phe Asp Ile His Thr Ile His 145 150 155 160

Val Cys Leu His Leu Ala Val Leu Leu Gly Phe Pro Ser Asp Gly Pro 165 170 175

Leu Val Cys Ala Leu Glu Gln Glu Arg Arg Leu Ala Xaa Pro Pro Lys 180 185 190

Pro Pro Pro Leu Gln Pro Leu Leu Arg Gly Gly Gln Gly Leu Glu 195 200 205

Ala Ala Leu Ser Cys Pro Arg Phe Leu Arg Tyr Pro Arg Gln His Leu 210 215 220

Ile Ser Ser Leu Ala Glu Ala Arg Pro Glu Glu Leu Thr Pro His Val 225 230 235 240

Met Val Leu Leu Ala Gln His Leu Ala Arg His Arg Leu Arg Glu Pro 245 250 255

Gln Leu Leu Glu Ala Ile Ala His Phe Leu Val Val Gln Glu Thr Gln 260 265 270

Leu Ser Ser Lys Val Val Gln Lys Leu Val Leu Pro Phe Gly Arg Leu 275 280 285

Asn Tyr Leu Pro Leu Glu Gln Gln Phe Met Pro Cys Leu Glu Arg Ile 290 295 300

Leu Ala Arg Glu Ala Gly Val Ala Xaa Leu Ala Thr Val Asn Ile Leu

305 310 315 320

Met Ser Leu Cys Gln Leu Arg Cys Leu Pro Phe Arg Ala Leu His Phe 325 330 335

Val Phe Ser Pro Gly Phe Ile Asn Tyr Ile Ser Gly Thr Gln Pro Gly 340 345 350

Trp Leu Ala Gly Pro Leu Arg Ala Gly Glu Ala Gly Glu Gln Gly Gly 355 360 365

Leu Gln Pro Arg Ala Pro Val Pro Ala Ser Pro Gln Ala Pro Leu Met 370 375 380

Leu 385

<210> 1175

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1175

His Glu Gln Asp Pro Lys Trp Gln Arg Cys Arg Leu Ser Trp Glu Ser 1 5 10 15

Glu Pro Leu Trp Leu Phe Gly Arg Leu Met Val Thr Leu Lys Tyr Cys
20 25 30

Leu Pro Leu Val Ser Arg Pro Ser Ser Ile Arg Trp Glu Arg Arg Pro 35 40 45

Gln Xaa Met Cys Leu Ser Asp His Gly Ala Ser Cys Pro Ala Leu Gly 50 55 60

Lys Thr Glu Thr Lys Ser Ser Gln Leu Ala Leu Gly Glu Gly Leu Phe
65 70 75 80

Pro Leu Pro Leu Ala His Phe Gln Glu Phe Asp Ser Glu Ser Arg Ala 85 90 95

Ala Val Pro Gly Arg Val Cys Thr His Ile Cys Val Gly Arg Lys
100 105 110

Arg Thr

<210> 1176

<211> 188

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1176

Gln Arg Leu Glu Ser Gly Asp Cys Ile Gly Val Leu Asp Cys Glu Trp

1 10 15

Cys Met Val Asp Ser Asp Gly Lys Thr His Leu Asp Lys Pro Tyr Cys
20 25 30

Ala Pro Gln Lys Glu Cys Phe Gly Gly Ile Val Gly Ala Lys Ser Pro 35 40 45

Tyr Val Asp Asp Met Gly Ala Ile Gly Asp Glu Val Ile Thr Leu Asn 50 55 60

Met Ile Lys Ser Ala Pro Val Gly Pro Val Ala Gly Gly Ile Met Gly 65 70 75 80

Cys Ile Met Val Leu Val Leu Ala Val Tyr Ala Tyr Arg His Gln Ile 85 90 95

His Arg Arg Ser His Gln His Met Ser Pro Leu Ala Ala Gln Glu Met 100 105 110

Ser Val Arg Met Ser Asn Leu Glu Asn Asp Arg Asp Glu Arg Asp Asp 115 120 125

Asp Ser His Glu Asp Arg Gly Ile Ile Ser Asn Thr Arg Phe Ile Ala 130 135 140

Ala Val Ile Glu Arg His Ala His Ser Pro Glu Arg Arg Arg Tyr 145 150 155 160

Trp Gly Arg Ser Gly Thr Glu Ser Asp His Gly Tyr Ser Thr Met Ser 165 170 175

Pro Gln Glu Asp Ser Xaa Lys Ser Ser Met Gln Gln 180 185 <210> 1177

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1177

His Ile Ala Lys Val Ser Cys Thr Leu Leu Gln Gly Asn Val Ser Phe

1 5 10 15

Met Ala Leu Lys His Leu Gly Lys Lys Lys Met Phe Lys Arg Ile Asn 20 25 30

Arg Ala Val Val Cys Ile Arg Met Cys Val Ile Cys Val Phe Tyr Lys
35 40 45

Leu Ser Ile Gly Gly Phe Arg Val Leu Lys Cys Gln His Ile Pro Ser 50 55 60

Pro Phe Val Ser Gln Ala Asn Met Arg Glu Asn Arg Lys Val Leu Ala 65 70 75 80

Val Gly Ile Gly Ser Ser Gly Gly Gln Met Ser Leu Pro Asp Pro 85 90 95

<210> 1178

<211> 197

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1178

Asn Ser Leu Thr Leu Ala Leu Pro Arg Xaa Thr Thr Ser His Asn Ser 1 5 10 15

Leu Thr Thr Pro Cys Tyr Thr Pro Tyr Tyr Val Ala Pro Glu Val Leu 20 25 30

Gly Pro Glu Lys Tyr Asp Lys Ser Cys Asp Met Trp Ser Leu Gly Val 35 40 45

Ile Met Tyr Ile Leu Leu Cys Gly Tyr Pro Pro Phe Tyr Ser Asn His 50 55 60

Gly Leu Ala Ile Ser Pro Gly Met Lys Thr Arg Ile Arg Met Gly Gln
65 70 75 80

Tyr Glu Phe Pro Asn Pro Glu Trp Ser Glu Val Ser Glu Glu Val Lys
85 90 95

Met Leu Ile Arg Asn Leu Leu Lys Thr Glu Pro Thr Gln Arg Met Thr
100 105 110

Ile Thr Glu Phe Met Asn His Pro Trp Ile Met Gln Ser Thr Lys Val 115 120 125

Pro Gln Thr Pro Leu His Thr Ser Arg Val Leu Lys Glu Asp Lys Glu 130 135 140

Arg Trp Glu Asp Val Lys Glu Glu Met Thr Ser Ala Leu Ala Thr Met 145 150 155 160

Arg Val Asp Tyr Glu Gln Ile Lys Ile Lys Lys Ile Glu Asp Ala Ser 165 170 175

Asn Pro Leu Leu Lys Arg Arg Lys Lys Ala Arg Ala Leu Glu Ala 180 185 190

Ala Ala Leu Ala His 195

<210> 1179

<211> 249

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE <222> (109) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (224) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (226) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1179 His Glu Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Lys Glu Cys Arg Lys Thr Phe Ser Gln Met Thr His Leu Thr Gln His Gln Thr Thr 20 25 His Thr Arg Glu Lys Phe His Glu Cys Ser Glu Cys Gly Lys Ala Phe 35 40 45 Ser Arg Val Ser Ala Leu Ile Asp His Gln Arg Ile His Ser Gly Glu 50 55 Xaa Pro Tyr Glu Cys Lys Xaa Cys Gly Arg Ala Phe Thr Gln Ser Ala 65 75 Gln Leu Ile Xaa His Gln Lys Thr His Ser Gly Glu Lys Pro Tyr Glu Cys Ser Lys Cys Lys Lys Ser Phe Val His Leu Ser Xaa Leu Ile Glu 105 His Trp Arg Ile His Thr Gly Glu Lys Pro Tyr Gln Cys Lys Asp Cys 115 120 Lys Lys Thr Phe Cys Arg Val Met Gln Phe Thr Leu His Arg Arg Ile 130 135 140 His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Glu Cys Gly Lys Ser Phe 145 150 155 160 Ser Ala His Ser Ser Leu Val Thr His Lys Arg Thr His Ser Gly Glu 165 170 175

Lys Pro Tyr Lys Cys Lys Glu Cys Gly Lys Ala Phe Ser Ala His Ser

185

190

180

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Ser Leu Val Thr His Lys Arg Thr His Ser Gly Glu Lys Pro Tyr Thr
195 200 205
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Cys His Ala Cys Gly Lys Ala Phe Asn Thr Ser Ser Thr Leu Cys Xaa 210 215 220

His Xaa Arg Ile His Thr Gly Glu Lys Pro Phe Gln Cys Ser Gln Cys 225 230 235 240

Gly Lys Ser Leu Val Phe Ser Cys Arg 245

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<210> 1180
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<211> 377

<212> PRT

<213> Homo sapiens

<220>

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<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (324)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (360)

<223> Xaa equals any of the naturally occurring L-amino acids

<2.20>

<221> SITE

<222> (362)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1180

Glu Asp Arg Glu Ala Glu Pro Gln Ile Ala Ala Xaa Asn Leu Lys Phe 1 5 10 15

Gln Gly Ala Ser Asn Leu Thr Leu Ser Glu Thr Gln Asn Gly Asp Val 20 25 30

Ser Glu Glu Thr Met Gly Ser Arg Lys Val Lys Lys Ser Lys Gln Lys 35 40 45

Pro Met Asn Val Gly Leu Ser Glu Thr Gln Asn Gly Gly Met Ser Gln 50 55 60

Glu 65		Val	Gly	Asn	Ile 70	Lys	Val	Thr	Lys	Ser 75		Gln	Lys	Ser	Thr 80
Val	Leu	Ser	Asn	Gly 85	Glu	Ala	Ala	Met	Gln 90	Ser	Ser	Asn	Ser	Glu 95	Ser
Lys	Lys	Lys	Lys 100	Lys	Lys	Lys	Arg	Lys 105	Met	Val	Asn	Asp	Ala 110	Glu	Pro
		115			Lys		120					125			
	130				Lys	135					140				
145					Ser 150					155					160
				165	Thr				170					175	
			180		Ala			185					190		
		195			Ser		200					205	-		
	210				Thr	215			-		220				
225					11e 230					235					240
				245	Leu				250					255	
			260		Glu			265					270		
		275			Ser		280					285			
	290				Ile	295					300				
305					Gly 310					315					320
Ile	Asp	Glu	Xaa	Asp 325	Arg	Ile	Leu	Asp	Val 330	Gly	Phe	Glu	Glu	Glu 335	Leu

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Lys Gln Ile Ile Lys Leu Leu Pro Thr Arg Arg Gln Thr Met Leu Phe
             340
                                 345
Ser Ala Thr Gln Thr Arg Lys Xaa Glu Xaa Leu Ala Arg Ile Ser Leu
                             360
                                                  365
Lys Lys Glu Pro Leu Val Cys Trp Arg
    370
<210> 1181
<211> 422
<212> PRT
<213> Homo sapiens
<220>
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<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (34)
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<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220> <221> SITE <222> (248) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1181 Ser His Leu Leu Gln Thr Thr Tyr Pro Lys Gln Arg Met Pro Asp Arg Arg His Ser Lys Ser Ala Gln Ile Ile Xaa Xaa Pro Val Pro Tyr Gln 25 Xaa Xaa Ser His Thr Ser Tyr Leu Tyr Thr Gln Tyr Ala Pro Val Pro 35 40 Phe Gly Ile Pro Xaa Pro Met Pro Xaa Pro Met Leu Ile Pro Ser Ser 50 55 60 Met Asp Ser Glu Asp Lys Val Thr Glu Ser Ile Glu Asp Ile Lys Glu 70 75 Lys Leu Pro Thr His Pro Phe Glu Ala Asp Leu Leu Glu Met Ala Glu 85 90 Met Ile Ala Glu Asp Glu Glu Lys Lys Thr Leu Ser Gln Gly Glu Ser 105 Gln Thr Ser Glu His Glu Leu Phe Leu Asp Thr Lys Ile Phe Glu Lys 120 Xaa Gln Gly Ser Thr Tyr Ser Gly Asp Leu Glu Ser Glu Ala Val Ser 130 135 140 Thr Pro His Ser Trp Glu Glu Glu Leu Asn His Tyr Ala Leu Lys Ser 145 150 160 Asn Ala Val Gln Glu Ala Asp Ser Glu Leu Lys Gln Phe Ser Lys Gly 165 170 Glu Thr Glu Arg Thr Trp Lys Gln Ile Phe His Gln Thr Pro Leu Thr 185 His Leu Ile Lys Asp Gly Asn Pro Gly Thr Phe Pro Asn Arg Arg 200 His Arg Asp Gly Phe Pro Gln Pro Arg Arg Arg Gly Arg Lys Lys Ser 210 215 220

Ile Val Ala Val Glu Pro Arg Ser Leu Ile Gln Gly Ala Phe Gln Gly

235

240

230

225

Cys Ser Val Ser Gly Met Thr Xaa Lys Tyr Met Tyr Gly Val Asn Ala 245 250 255

Trp Lys Asn Trp Val Gln Trp Lys Asn Ala Lys Glu Glu Gln Gly Asp 260 265 270

Leu Lys Cys Gly Gly Val Glu Gln Ala Ser Ser Ser Pro Arg Ser Asp 275 280 285

Pro Leu Gly Ser Thr Gln Asp His Ala Leu Ser Gln Glu Ser Ser Glu 290 295 300

Pro Gly Cys Arg Val Arg Ser Ile Lys Leu Lys Glu Asp Ile Leu Ser 305 310 315 320

Cys Thr Phe Ala Glu Leu Ser Leu Gly Leu Cys Gln Phe Ile Gln Glu 325 330 335

Val Arg Arg Pro Asn Gly Glu Lys Tyr Asp Pro Asp Ser Ile Leu Tyr 340 345 350

Leu Cys Leu Gly Ile Gln Gln Tyr Leu Phe Glu Asn Gly Arg Ile Asp 355 360 365

Asn Ile Phe Thr Glu Pro Tyr Ser Arg Phe Met Ile Glu Leu Thr Lys 370 375 380

Leu Leu Lys Ile Trp Glu Pro Thr Ile Leu Pro Asn Gly Tyr Met Phe 385 390 395 400

Ser Arg Ile Glu Glu His Leu Trp Glu Cys Lys Gln Leu Gly Ala 405 410 415

Tyr Ser Pro Ile Ala Phe 420

<210> 1182

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1182
Lys Thr Gly Ala Cys Pro Glu Asp Xaa Lys Tyr Cys Pro Gln Ser Ser
                                      10
Arg Tyr Lys Thr Gly Leu Glu Pro Xaa Gly
             20
<210> 1183
<211> 17
<212> PRT
<213> Homo sapiens
<400> 1183
Gly Gln Glu Ile Glu Thr Val Leu Ala Asn Met Val Lys Pro Arg Leu
Tyr
<210> 1184
<211> 165
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1184
Cys Asp Ser Trp Asn Ala Val Met Ser Thr Leu Cys Pro Pro Pro Ser
Pro Ala Val Ala Lys Thr Glu Ile Ala Leu Ser Gly Lys Ser Pro Leu
             20
                                 25
Leu Ala Ala Thr Phe Ala Tyr Trp Asp Asn Ile Leu Gly Pro Arg Val
Arg His Ile Trp Ala Pro Lys Thr Glu Gln Val Leu Leu Ser Asp Gly
                         55
```

Glu Ile Thr Phe Leu Ala Asn His Thr Leu Asn Gly Glu Ile Leu Arg

75

80

70

65

Asn Ala Glu Ser Gly Ala Ile Asp Val Lys Phe Phe Val Leu Ser Glu 85 90 95

Lys Gly Val Ile Ile Val Ser Leu Ile Phe Asp Gly Asn Trp Asn Gly
100 105 110

Asp Arg Ser Thr Tyr Gly Leu Ser Ile Ile Leu Pro Gln Thr Glu Leu 115 120 125

Ser Phe Tyr Leu Pro Leu His Arg Val Cys Val Asp Arg Leu Thr His 130 135 140

Ile Ile Arg Lys Gly Arg Ile Trp Met His Lys Glu Arg Xaa Glu Met 145 150 155 160

Ser Arg Arg Leu Ser 165

<210> 1185

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1185

Gly Thr Ala Phe Thr Arg Gln Cys Ser Gln Gly Pro Trp Tyr Arg Ala 1 5 10 15

Arg Ser Arg Val Pro Gln Val Val Arg Leu Pro Gly Pro His Leu Glu 20 25 30

Pro Ser Leu Cys Ser Phe Glu Ser Arg Cys Cys Pro Thr Pro Ile Pro 35 40 45

Asn Gln Pro Pro Pro Pro Ala Ser Leu Pro Ser Val Pro Phe Ile Leu 50 55 60

Pro Gly Val Pro Ser Ala Cys His Gly Thr Ala Cys Tyr Leu Xaa Gln 65 70 75 80

Leu Gln Met Pro Ala Leu Asn Leu Pro Trp Xaa Pro Phe Leu Tyr Xaa 85 90 95

Val Asn Ser Leu Asn Ser Ala Leu Pro Leu Pro Ala Leu Lys 100 105 110

<210> 1186

<211> 352

<212> PRT

<213> Homo sapiens

<400> 1186

Cys Arg Ser Pro Glu Ala Ser Val Leu Phe Pro Glu Val Ser Gly Leu
1 5 10 15

Gly Gln Pro Pro Ser Ser Ser Leu Arg Met Ala Ser Ser Ser Gly Ser 20 25 30

Lys Ala Glu Phe Ile Val Gly Gly Lys Tyr Lys Leu Val Arg Lys Ile 35 40 45

Gly Ser Gly Ser Phe Gly Asp Ile Tyr Leu Ala Ile Asn Ile Thr Asn 50 55 60

Gly Glu Glu Val Ala Val Lys Leu Glu Ser Gln Lys Ala Arg His Pro
65 70 75 80

Gln Leu Leu Tyr Glu Ser Lys Leu Tyr Lys Ile Leu Gln Gly Gly Val 85 90 95

Gly Ile Pro His Ile Arg Trp Tyr Gly Gln Glu Lys Asp Tyr Asn Val

Leu Val Met Asp Leu Leu Gly Pro Ser Leu Glu Asp Leu Phe Asn Phe 115 120 125

Cys Ser Arg Arg Phe Thr Met Lys Thr Val Leu Met Leu Ala Asp Gln 130 135 140

Met Ile Ser Arg Ile Glu Tyr Val His Thr Lys Asn Phe Ile His Arg 145 150 155 160

Asp Ile Lys Pro Asp Asn Phe Leu Met Gly Ile Gly Arg His Cys Asn

165 170 175

Lys Leu Phe Leu Ile Asp Phe Gly Leu Ala Lys Lys Tyr Arg Asp Asn 180 185 190

Arg Thr Arg Gln His Ile Pro Tyr Arg Glu Asp Lys Asn Leu Thr Gly
195 200 205

Thr Ala Arg Tyr Ala Ser Ile Asn Ala His Leu Gly Ile Glu Gln Ser 210 215 220

Arg Arg Asp Asp Met Glu Ser Leu Gly Tyr Val Leu Met Tyr Phe Asn 225 230 235 240

Arg Thr Ser Leu Pro Trp Gln Gly Leu Lys Ala Ala Thr Lys Lys Gln 245 250 255

Lys Tyr Glu Lys Ile Ser Glu Lys Lys Met Ser Thr Pro Val Glu Val 260 265 270

Leu Cys Lys Gly Phe Pro Ala Glu Phe Ala Met Tyr Leu Asn Tyr Cys 275 280 285

Arg Gly Leu Arg Phe Glu Glu Ala Pro Asp Tyr Met Tyr Leu Arg Gln 290 295 300

Leu Phe Arg Ile Leu Phe Arg Thr Leu Asn His Gln Tyr Asp Tyr Thr 305 310 315 320

Phe Asp Trp Asp Asn Val Lys Ala Glu Ser Ser Thr Ala Gly Ser Leu 325 330 335

Phe Gln Trp Ala Gly Ser Ala Gly Pro Asn Pro His Arg Gln Ala Asn 340 345 350

<210> 1187

<211> 482

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (105)
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<222> (475)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1187
Ala Gly Leu Val Ala Ala Gly Ala Val Arg Xaa Leu Tyr Pro Ala Ser
Arg Ala Gly Glu Arg Thr Arg Val Pro Gly Ser Pro Ala Pro Xaa Ser
                                 25
Leu Pro Leu His Ser Pro Gly Ala Cys Gly Thr Glu Val Asp Met Asp
         35
                             40
Pro Gln Arg Ser Pro Leu Leu Glu Val Lys Gly Asn Ile Glu Leu Lys
     50
                         55
                                              60
Arg Pro Leu Ile Lys Ala Pro Ser Gln Leu Pro Leu Ser Gly Ser Arg
65
                     70
                                          75
                                                               80
Leu Lys Arg Arg Pro Asp Gln Met Glu Asp Gly Leu Glu Pro Glu Lys
                 85
                                      90
```

Lys Arg Thr Arg Gly Leu Gly Ala Xaa Thr Lys Ile Thr Thr Ser His

105

110

100

Pr	o A	rg	Val 115	Pro	Ser	Leu	Thr	Thr 120	Val	Pro	Gln	Thr	Gln 125	Gly	Gln	Thr
Th		la 30	Gln	Lys	Val	Ser	Lys 135	Lys	Thr	Gly	Pro	Arg 140	Cys	Ser	Thr	Ala
11 14		la	Thr	Gly	Leu	Lys 150	Asn	Gln	Lys	Pro	Val 155	Pro	Ala	Val	Pro	Val 160
Gl	n Ly	/S	Ser	Gly	Thr 165	Ser	Gly	Val	Pro	Pro 170	Met	Ala	Gly	Gly	Lys 175	Lys
Pr	o Se	er	Lys	Arg 180	Pro	Ala	Trp	Asp	Leu 185	Lys	Gly	Gln	Leu	Cys 190	Asp	Leu
As	n Al	La	Glu 195	Leu	Lys	Arg	Cys	Arg 200	Glu	Arg	Thr	Gln	Thr 205	Leu	Asp	Gln
Gl	u As 21		Gln	Gln	Leu	Gln	Asp 215	Gln	Leu	Arg	Asp	Ala 220	Gln	Gln	Gln	Val
Ly 22		.a	Leu	Gly	Thr	Glu 230	Arg	Thr	Thr	Leu	Glu 235	Gly	His	Leu	Ala	Lys 240
Va	1 G1	.n	Ala	Gln	Ala 245	Glu	Gln	Gly	Gln	Gln 250	Glu	Leu	Lys	Asn	Leu 255	Arg
Al	a Cy	'S	Xaa	Leu 260	Glu	Leu	Glu	Glu	Arg 265	Leu	Ser	Thr	Gln	Glu 270	Gly	Leu
Va	1 G1		Glu 275	Leu	Gln	Lys	Lys	Gln 280	Val	Glu	Leu	Gln	Glu 285	Glu	Arg	Arg
Gl <sub>i</sub>	y Le 29		Met	Ser	Gln	Leu	Glu 295	Glu	Lys	Glu	Arg	Arg 300	Leu	Gln	Thr	Ser
G1:		.a	Ala	Leu	Ser	Ser 310	Ser	Gln	Ala	Glu	Val 315	Ala	Ser	Leu	Arg	Gln 320
Gl	ı Th	r	Val	Ala	Gln 325	Ala	Ala	Leu	Leu	Thr 330	Glu	Arg	Glu	Glu	Arg 335	Leu
His	s Gl	У	Leu	Glu 340	Met	Glu	Arg	Arg	Arg 345	Leu	His	Asn	Gln	Leu 350	Gln	Glu
Lei	ı Ly		Gly 355	Asn	Ile	Arg	Val	Phe 360	Cys	Arg	Val	Arg	Pro 365	Val	Leu	Pro
Gly	7 G1 37		Pro	Thr	Pro	Pro	Pro 375	Gly	Leu	Leu	Leu	Phe 380	Pro	Ser	Gly	Pro

Gly Gly Pro Ser Asp Pro Pro Thr Arg Leu Ser Leu Ser Arg Ser Asp 385 390 395 400

Glu Arg Arg Gly Thr Leu Ser Gly Ala Pro Ala Pro Pro Thr Arg His
405 410 415

Asp Phe Ser Phe Asp Arg Val Phe Pro Pro Gly Ser Gly Gln Asp Glu 420 425 430

Val Phe Glu Glu Ile Ala Met Leu Val Gln Ser Ala Leu Asp Gly Tyr 435 440 445

Pro Xaa Cys Ile Phe Ala Tyr Gly Gln Thr Xaa Ser Gly Lys Thr Phe 450 455 460

Thr Met Glu Gly Gly Leu Gly Glu Thr Pro Xaa Gly Arg Ala Asp Pro 465 470 475 480

Ser Gly

<210> 1188

<211> 345

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1188

Thr Ala Ser Leu Ser Asn Ala Val Lys Ile Leu Leu Arg Trp Val Thr
1 5 10 15

Arg Tyr Ser Cys Pro Arg Ala Phe Val Thr Gly Met Pro Lys Arg Gly 20° 25 30

Lys Lys Gly Ala Val Ala Glu Asp Gly Asp Glu Leu Arg Thr Glu Pro 35 40 45

Glu Ala Lys Lys Ser Lys Thr Ala Ala Lys Lys Asn Asp Lys Glu Ala 50 55 60

Ala Gly Glu Gly Pro Ala Leu Tyr Glu Asp Pro Pro Asp Gln Lys Thr
65 70 75 80

Ser Pro Ser Gly Lys Pro Ala Thr Leu Lys Ile Cys Ser Trp Asn Val 85 90 95

Asp	Gly	Leu	Arg 100	Ala	Trp	Ile	Lys	Lys 105	Lys	Gly	Leu	Asp	Trp 110	Val	Lys
Glu	Glu	Ala 115	Pro	Asp	Ile	Leu	Cys 120	Leu	Gln	Glu	Thr	Lys 125	Cys	Ser	Glu
Asn	Lys 130	Leu	Pro	Ala	Glu	Leu 135	Gln	Glu	Leu	Pro	Gly 140	Leu	Ser	His	Gln
Tyr 145	Trp	Ser	Ala	Pro	Ser 150	Asp	Lys	Glu	Gly	Tyr 155	Ser	Gly	Val	Gly	Leu 160
Leu	Ser	Arg	Gln	Cys 165	Pro	Leu	Lys	Val	Ser 170	Tyr	Gly	Ile		Xaa 175	Glu
Glu	His	Asp	Gln 180	Glu	Gly	Arg	Val	11e 185	Val	Ala	Glu	Phe	Asp 190	Ser	Phe
		195	Thr				200					205			
	210		Arg			215					220	_			
Gly 225	Leu	Ala	Ser	Arg	Lys 230	Pro	Leu	Val	Leu	Cys 235	Gly	Asp	Leu	Asn	Val 240
			Glu	245					250					255	
			Thr 260					265					270		
Ala	Val	Pro 275	Leu	Ala	Asp	Ser	Phe 280		His	Leu	Tyr	Pro 285	Asn	Thr	Pro
Tyr	Ala 290	Tyr	Thr	Phe	Trp	Thr 295	Tyr	Met	Met	Asn	Ala 300	Arg	Ser	Lys	Asn
Val 305	Gly	Trp	Arg	Leu	Asp 310	Tyr	Phe	Leu	Leu	Ser 315	His	Ser	Leu	Leu	Pro 320
Ala	Leu	Cys	Asp	Ser 325	Lys	Ile	Arg	Ser	Lys 330	Ala	Leu	Gly	Ser	Asp 335	His
Cys	Pro	Ile	Thr	Leu	Tyr	Leu	Ala	Leu							

345

340

988

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<210> 1189
<211> 136
<212> PRT
<213> Homo sapiens
<400> 1189
Asp Ile Ser Thr Pro Ser Leu Thr Thr Asp His Ala Pro Leu Thr Ile
                  5
                                      10
Ser Leu Lys Pro Asn His Pro Tyr Arg Thr Gln Cys Gln Tyr Pro Ile
             20
                                  25
Pro Gln His Ala Leu Lys Arg Leu Lys Pro Val Ile Ile Arg Leu Leu
Gln His Gly Leu Leu Asn Pro Ile Asn Ser Pro Tyr Asn Ser Pro Ile
                         55
Phe Pro Val Leu Lys Arg Asp Lys Pro Tyr Lys Leu Val Gln Asp Leu
 65
                     70
                                          75
Arg Leu Ile Asn Gln Ile Val Leu Pro Ile His Pro Val Val Pro Asn
                 85
                                      90
                                                          95
Pro Tyr Thr Leu Leu Ser Ser Ile Pro Pro Ser Thr Thr His Tyr Ser
            100
                                 105
                                                     110
Val Leu Asp Leu Arg His Ala Phe Phe Thr Ile Ala Leu His Pro Ser
        115
                             120
                                                 125
Ser Gln Pro Leu Phe Ala Phe Thr
    130
                        135
<210> 1190
<211> 128
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<220> <221> SITE <222> (12)

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<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1190
Leu Xaa Gln Lys Thr Gln Pro Thr His Glu Lys Xaa Ala Xaa Ser Phe
Leu Gly Met Val Cys Ile Trp Val Xaa Ser Ile Gln Thr Ser Ile Asn
             20
                                 25
Thr Ser Phe Ile Leu Gly Leu Pro Asn Ser Phe Pro Gln Asp Leu Lys
         35
                             40
                                                  45
Thr Ile Thr Met Ile Lys Val Ser Phe Ala Pro Cys Gln Arg Leu Gly
                         55
                                             60
Pro Leu Pro Phe Pro Ser Arg Gln Tyr Ser Val Gln Leu Gly Leu Val
                     70
                                          75
Pro Ser Leu Ser Val Arg Thr Glu Phe His Pro Arg Phe Ser Thr Gln
                 85
Ala Leu Cys Ser Gly Lys Val Lys Pro Ser Leu Lys Gly Ser Lys Ser
```

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<210> 1191
<211> 236
<212> PRT
<213> Homo sapiens
<400> 1191
Arg Ala Gly Ser Val Lys Arg Arg Gln Arg Gly Lys Met Ala Ala Ala
                                      10
Val Pro Gln Arg Ala Trp Thr Val Glu Gln Leu Arg Ser Glu Gln Leu
             20
```

25

105

125

30

Ser Ala Ile Asp Arg Ala Ala Gly Gly Lys Arg Ser Arg Cys Ile Arg

120

115

Pro Lys Lys Asp Ile Ile Lys Phe Leu Gln Glu His Gly Ser Asp Ser 35 40 45

Phe Leu Ala Glu His Lys Leu Leu Gly Asn Ile Lys Asn Val Ala Lys 50 55 60

Thr Ala Asn Lys Asp His Leu Val Thr Ala Tyr Asn His Leu Phe Glu 65 70 75 80

Thr Lys Arg Phe Lys Gly Thr Glu Ser Ile Ser Lys Val Ser Glu Gln 85 90 95

Val Lys Asn Val Lys Leu Asn Glu Asp Lys Pro Lys Glu Thr Lys Ser 100 105 110

Glu Glu Thr Leu Asp Glu Gly Pro Pro Lys Tyr Thr Lys Ser Val Leu 115 120 125

Lys Lys Gly Asp Lys Thr Asn Phe Pro Lys Lys Gly Asp Val Val His 130 135 140

Cys Trp Tyr Thr Gly Thr Leu Gln Asp Gly Thr Val Phe Asp Thr Asn 145 150 155 160

Ile Gln Thr Ser Ala Lys Lys Lys Lys Asn Ala Lys Pro Leu Ser Phe 165 170 175

Lys Val Gly Val Gly Lys Val Ile Arg Gly Trp Asp Glu Ala Leu Leu 180 185 190

Thr Met Ser Lys Gly Glu Lys Ala Arg Leu Glu Ile Glu Pro Glu Trp 195 200 205

Ala Tyr Gly Lys Lys Gly Gln Pro Asp Ala Lys Ile Pro Pro Asn Ala 210 215 220

Lys Leu Thr Phe Glu Val Glu Leu Val Asp Ile Asp 225 230 235

<210> 1192

<211> 204

<212> PRT

<213> Homo sapiens

<400> 1192

Pro Ala Met Glu Ala Glu Ala Gly Gly Leu Glu Glu Leu Thr Asp Glu
1 5 10 15

Glu Met Ala Ala Leu Gly Lys Glu Glu Leu Val Arg Arg Leu Arg Arg

20 25 30

Glu Glu Ala Ala Arg Leu Ala Ala Leu Val Gln Arg Gly Arg Leu Met
35 40 45

Gln Glu Val Asn Arg Gln Leu Gln Gly His Leu Gly Glu Ile Arg Glu
50 55 60

Leu Lys Gln Leu Asn Arg Arg Leu Gln Ala Glu Asn Arg Glu Leu Arg
65 70 75 80

Asp Leu Cys Cys Phe Leu Asp Ser Glu Arg Gln Arg Gly Arg Ala 85 90 95

Ala Arg Gln Trp Gln Leu Phe Gly Thr Gln Ala Ser Arg Ala Val Arg 100 105 110

Glu Asp Leu Gly Gly Cys Trp Gln Lys Leu Ala Glu Leu Glu Gly Arg 115 120 125

Gln Glu Glu Leu Leu Arg Glu Asn Leu Ala Leu Lys Glu Leu Cys Leu 130 135 140

Ala Leu Gly Glu Glu Trp Gly Pro Arg Gly Gly Pro Ser Gly Ala Gly
145 150 155 160

Gly Ser Gly Ala Gly Pro Ala Pro Glu Leu Ala Leu Pro Pro Cys Gly
165 170 175

Pro Arg Asp Leu Gly Asp Gly Ser Ser Ser Thr Gly Ser Val Gly Ser 180 185 190

Pro Asp Gln Leu Pro Leu Ala Cys Ser Pro Asp Asp 195 200

<210> 1193

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1193

Ser Gln Gln Thr Glu Leu Ile Thr Val Ile Leu Gly Val Phe Phe Cys
1 5 10 15

Arg Val Lys His Val Asn Ile Leu His Arg His Lys Tyr Lys His Asp
20 25 30

Lys His Trp Thr Trp Lys Met Gly Ser Lys Phe Cys Thr Cys Ala Phe
35 40 45

Leu Tyr Phe Cys Cys Ile Phe Xaa Ser Cys Xaa Phe Ala Lys Tyr Ile 50 55 60

Ile Asn 65

<210> 1194

<211> 305

<212> PRT

<213> Homo sapiens

<400> 1194

Thr Cys Ala Gly Pro Arg Gly Ala Ala Cys Gly Arg Leu Arg Leu Pro
1 5 10 15

Ala Ala Gly Ala Leu Leu Pro Ala Ala Gln Arg Arg Val His Arg Tyr 20 25 30

Glu Glu Ser Glu Val Ile Ser Leu Pro Phe Leu Asp Gln Leu Val Ser 35 40 45

Thr Leu Val Gly Leu Leu Ser Pro His Asn Pro Ala Leu Ala Ala 50 55 60

Ala Leu Asp Tyr Arg Cys Pro Val His Phe Tyr Trp Val Arg Gly Glu 65 70 75 80

Glu Ile Ile Pro Arg Gly His Arg Arg Gly Arg Ile Asp Asp Leu Arg 85 90 95

Tyr Gln Ile Asp Asp Lys Pro Asn Asn Gln Ile Arg Ile Ser Lys Gln
100 105 110

Leu Ala Glu Phe Val Pro Leu Asp Tyr Ser Val Pro Ile Glu Ile Pro 115 120 125

Thr Ile Lys Cys Lys Pro Asp Lys Leu Pro Leu Phe Lys Arg Gln Tyr 130 135 140

Glu Asn His Ile Phe Val Gly Ser Lys Thr Ala Asp Pro Cys Cys Tyr 145 150 155 160

Gly His Thr Gln Phe His Leu Leu Pro Asp Lys Leu Arg Arg Glu Arg 165 170 175

Leu Leu Arg Gln Asn Cys Ala Asp Gln Ile Glu Val Val Phe Arg Ala 180 185 190

Asn Ala Ile Ala Ser Leu Phe Ala Trp Thr Gly Ala Gln Ala Met Tyr 195 200 205

Gln Gly Phe Trp Ser Glu Ala Asp Val Thr Arg Pro Phe Val Ser Gln 210 215 220

Ala Val Ile Thr Asp Gly Lys Tyr Phe Ser Phe Phe Cys Tyr Gln Leu 225 230 235 240

Asn Thr Leu Ala Leu Thr Thr Gln Ala Asp Gln Asn Asn Pro Arg Lys
245 250 255

Asn Ile Cys Trp Gly Thr Gln Ser Lys Pro Leu Tyr Glu Thr Ile Glu 260 265 270

Asp Asn Asp Val Lys Gly Phe Asn Asp Asp Val Leu Leu Gln Ile Val 275 280 285

His Phe Leu Leu Asn Arg Pro Lys Glu Glu Lys Ser Gln Leu Leu Glu 290 295 300

Asn

305

<210> 1195

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1195

Gly Arg Ala Ala Pro Gln Leu Gln Asp Leu Ala Ser Ser Cys Pro Gln
1 5 10 15

Glu Glu Val Ser Gln Gln Gln Glu Ser Val Ser Xaa Leu Pro Ala Ser 20 25 30

Val His Pro Gln Leu Xaa His Gly Arg Ala Trp Arg Pro Ser Thr Cys
35 40 45

Ser Thr Asp Ser Arg Ser Pro Ala Phe Cys Gln Arg Pro Arg Thr Pro 50 55 60

Val Ser Ile Cys Cys Arg Ile Lys Arg Leu Phe Leu Gln Lys Gln Ser
65 70 75 80

Gln Leu Gln Ala Tyr Phe Asn Gln Met Gln Ile Ala Glu Ser Ser Tyr 85 90 95

Pro Gln Pro Ser Gln Gln 100

<210> 1196

<211> 123

<212> PRT

<213> Homo sapiens

<400> 1196

Ala Arg Gly Pro Ala Ala Ala Cys Pro Leu Arg Trp Pro Pro Ala Ala 1 5 10 15

Ala Arg Ala Met Ala Gly Lys Ala His Arg Leu Ser Ala Glu Glu Arg
20 25 30

Asp Gln Leu Leu Pro Asn Leu Arg Ala Val Gly Trp Asn Glu Leu Glu
35 40 45

Gly Arg Asp Ala Ile Phe Lys Gln Phe His Phe Lys Asp Phe Asn Arg
50 55 60

Ala Phe Gly Phe Met Thr Arg Val Ala Leu Gln Ala Glu Lys Leu Asp
65 70 . 75 80

His His Pro Glu Trp Phe Asn Val Tyr Asn Lys Val His Ile Thr Leu
85 90 95

Ser Thr His Glu Cys Ala Gly Leu Ser Glu Arg Asp Ile Asn Leu Ala 100 105 110 Ser Phe Ile Glu Gln Val Ala Val Ser Met Thr 115 120

<210> 1197

<211> 247

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1197

Ala Arg Gly Gly Lys Ser Gly Arg Ala Gly Gly Ala Gly Ala Arg

1 5 10 15

Arg Gly Gly Lys Glu Leu Arg Val Ala Ala Glu Xaa Pro Arg Xaa Gln 20 25 30

Arg Arg Pro Thr Gln Pro Ser Arg Arg Arg Arg Arg Ala Pro Met Ala
35 40 45

Ala Ala Lys Asp Thr His Glu Asp His Asp Thr Ser Thr Glu Asn Thr 50 55 60

Asp Glu Ser Asn His Asp Pro Gln Phe Glu Pro Ile Val Ser Leu Pro 65 70 75 80

Glu Gln Glu Ile Lys Thr Leu Glu Glu Asp Glu Glu Glu Leu Phe Lys
85 90 95

Met Arg Ala Lys Leu Phe Arg Phe Ala Ser Glu Asn Asp Leu Pro Glu 100 105 110

Trp Lys Glu Arg Gly Thr Gly Asp Val Lys Leu Leu Lys His Lys Glu
115 120 125

Lys Gly Ala Ile Arg Leu Leu Met Arg Arg Asp Lys Thr Leu Lys Ile 130 135 140

Cys Ala Asn His Tyr Ile Thr Pro Met Met Glu Leu Lys Pro Asn Ala 145 150 155 160 Gly Ser Asp Arg Ala Trp Val Trp Asn Thr His Ala Asp Phe Ala Asp 165 170 175

Glu Cys Pro Lys Pro Glu Leu Leu Ala Ile Arg Phe Leu Asn Ala Glu 180 185 190

Asn Ala Gln Lys Phe Lys Thr Lys Phe Glu Glu Cys Arg Lys Glu Ile 195 200 205

Glu Glu Arg Glu Lys Lys Ala Gly Ser Gly Lys Asn Asp His Ala Glu 210 215 220

Lys Val Ala Glu Lys Leu Glu Ala Leu Ser Val Lys Glu Glu Thr Lys 225 230 235 240

Glu Asp Ala Glu Glu Lys Gln 245

<210> 1198

<211> 60

<212> PRT

<213> Homo sapiens

<400> 1198

Phe Gly Phe Ser Thr Cys Ile Thr Asn Pro Ala Pro Ile Cys His Ile
1 5 10 15

Lys Val Cys Asp Leu Lys Phe Ser Gln His Pro His Gln Thr Leu Phe 20 25 30

Phe Tyr Val Phe Phe Ala Thr Tyr Glu Cys Phe Glu Asn Lys Val Pro 35 40 45

Met Ser Leu Leu Glu Lys Lys Lys Lys Lys Lys 50 55 60

<210> 1199

<211> 198

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (189)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1199

Ser Asp Lys Trp Pro Thr Ala Val Arg Ala Asn Gly His Leu Leu Leu 1 5 10 15

Asn Ser Glu Lys Met Ser Lys Ser Thr Gly Asn Phe Leu Thr Leu Thr 20 25 30

Gln Ala Ile Asp Lys Phe Ser Ala Asp Gly Met Arg Leu Ala Leu Ala 35 40 45

Asp Ala Gly Asp Thr Val Glu Asp Ala Asn Phe Val Glu Ala Met Ala 50 55 60

Asp Ala Gly Ile Leu Arg Leu Tyr Thr Trp Val Glu Trp Val Lys Glu 65 70 75 80

Met Val Ala Asn Trp Asp Ser Leu Arg Ser Gly Pro Ala Ser Thr Phe
85 90 95

Asn Asp Arg Val Phe Ala Ser Glu Leu Asn Ala Gly Ile Ile Lys Thr 100 105 110

Asp Gln Asn Tyr Glu Lys Met Met Phe Lys Glu Ala Leu Lys Thr Gly 115 120 125

Phe Phe Glu Phe Gln Ala Ala Lys Asp Lys Tyr Arg Glu Leu Ala Val 130 135 140

Glu Gly Met His Arg Glu Leu Val Phe Arg Phe Ile Glu Val Gln Thr 145 150 155 160

Leu Leu Leu Ala Pro Phe Cys Pro His Leu Cys Glu Ala His Leu Gly 165 170 175

His Ser Trp Gly Lys Pro Asp Phe Asn Tyr Gly Met Xaa Ser Trp Ala 180 185 190

Cys Xaa Xaa Gly Pro Val 195 <210> 1200

<211> 174

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1200

Leu Tyr Gly Cys Glu Lys Thr Thr Glu Gly Gly Gly Arg Glu Xaa 1 5 10 15

Ala Gly Lys Met Val Val Thr Arg Ser Ala Arg Ala Lys Ala Ser Ile 20 25 30

Gln Ala Ala Ser Ala Glu Ser Ser Gly Gln Lys Ser Phe Ala Ala Asn 35 40 45

Gly Ile Gln Ala His Pro Glu Ser Ser Thr Gly Ser Asp Ala Arg Thr 50 55 60

Thr Ala Glu Ser Gln Thr Thr Gly Lys Gln Ser Leu Ile Pro Arg Thr 65 70 75 80

Pro Lys Ala Arg Lys Arg Lys Ser Arg Thr Thr Gly Ser Leu Pro Lys
85 90 95

Gly Thr Glu Pro Ser Thr Asp Gly Glu Thr Ser Glu Ala Glu Ser Asn 100 105 110

Tyr Ser Val Ser Glu His His Asp Thr Ile Leu Arg Val Thr Arg Arg 115 120 125

Arg Gln Ile Leu Ile Ala Cys Ser Pro Val Ser Ser Val Arg Lys Lys 130 135 140

Pro Lys Val Thr Pro Thr Lys Glu Ser Tyr Thr Glu Glu Ile Val Ser 145 150 155 160

Glu Ala Glu Ser His Val Ser Gly Ile Ser Arg Asn Cys Ala 165 170

<210> 1201

<211> 689

<212> PRT

<213> Homo sapiens

<400> 1201

Trp Ser Thr Glu Val Glu Pro Ser Gly Ile Ile Phe Lys Asn Ser Lys

1 10 15

Thr Gly Lys Val Asp Asn Ile Gln Ala Gly Glu Leu Thr Glu Gly Ile 20 25 30

Trp Arg Arg Val Ala Leu Gly His Gly Leu Lys Leu Leu Thr Lys Asn
35 40 45

Gly His Val Tyr Lys Tyr Asp Gly Phe Arg Glu Ser Glu Phe Glu Lys
50 55 60

Leu Ser Asp Phe Phe Lys Thr His Tyr Arg Leu Glu Leu Met Glu Lys
65 70 75 80

Asp Leu Cys Val Lys Gly Trp Asn Trp Gly Thr Val Lys Phe Gly Gly 85 90 95

Gln Leu Leu Ser Phe Asp Ile Gly Asp Gln Pro Val Phe Glu Ile Pro 100 105 110

Leu Ser Asn Val Ser Gln Cys Thr Thr Gly Lys Asn Glu Val Thr Leu 115 120 125

Glu Phe His Gln Asn Asp Asp Ala Glu Val Ser Leu Met Glu Val Arg 130 135 140

Phe Tyr Val Pro Pro Thr Gln Glu Asp Gly Val Asp Pro Val Glu Ala 145 150 155 160

Phe Ala Gln Asn Val Leu Ser Lys Ala Asp Val Ile Gln Ala Thr Gly
165 170 175

Asp Ala Ile Cys Ile Phe Arg Glu Leu Gln Cys Leu Thr Pro Arg Gly
180 185 190

Arg Tyr Asp Ile Arg Ile Tyr Pro Thr Phe Leu His Leu His Gly Lys 195 200 205

Thr Phe Asp Tyr Lys Ile Pro Tyr Thr Thr Val Leu Arg Leu Phe Leu 210 215 220

Leu Pro His Lys Asp Gln Arg Gln Met Phe Phe Val Ile Ser Leu Asp 225 230 235 240

Pro Pro Ile Lys Gln Gly Gln Thr Arg Tyr His Phe Leu Ile Leu Leu 245 250 255

Phe Ser Lys Asp Glu Asp Ile Ser Leu Thr Leu Asn Met Asn Glu Glu 260 265 270

Glu Val Glu Lys Arg Phe Glu Gly Arg Leu Thr Lys Asn Met Ser Gly 275 280 285

Ser Leu Tyr Glu Met Val Ser Arg Val Met Lys Ala Leu Val Asn Arg 290 295 300

Lys Ile Thr Val Pro Gly Asn Phe Gln Gly His Ser Gly Ala Gln Cys 305 310 315 320

Ile Thr Cys Ser Tyr Lys Ala Ser Ser Gly Leu Leu Tyr Pro Leu Glu 325 330 335

Arg Gly Phe Ile Tyr Val His Lys Pro Pro Val His Ile Arg Phe Asp 340 345 350

Glu Ile Ser Phe Val Asn Phe Ala Arg Gly Thr Thr Thr Arg Ser 355 360 365

Phe Asp Phe Glu Ile Glu Thr Lys Gln Gly Thr Gln Tyr Thr Phe Ser 370 375 380

Ser Ile Glu Arg Glu Glu Tyr Gly Lys Leu Phe Asp Phe Val Asn Ala 385 390 395 400

Lys Lys Leu Asn Ile Lys Asn Arg Gly Leu Lys Glu Gly Met Asn Pro 405 410 415

Ser Tyr Asp Glu Tyr Ala Asp Ser Asp Glu Asp Gln His Asp Ala Tyr
420 425 430

Leu Glu Arg Met Lys Glu Glu Gly Lys Ile Arg Glu Glu Asn Ala Asn 435 440 445

Asp Ser Ser Asp Asp Ser Gly Glu Glu Thr Asp Glu Ser Phe Asn Pro 450 455 460

Gly Glu Glu Glu Glu Asp Val Ala Glu Glu Phe Asp Ser Asn Ala Ser 465 470 475 480

Ala Ser Ser Ser Ser Asn Glu Gly Asp Ser Asp Arg Asp Glu Lys Lys
485 490 495

Arg Lys Gln Leu Lys Lys Ala Lys Met Ala Lys Asp Arg Lys Ser Arg 500 505 510

Lys Lys Pro Val Glu Val Lys Lys Gly Lys Asp Pro Asn Ala Pro Lys 515 520 525

Arg Pro Met Ser Ala Tyr Met Leu Trp Leu Asn Ala Ser Arg Glu Lys 530 535 540 Ile Lys Ser Asp His Pro Gly Ile Ser Ile Thr Asp Leu Ser Lys Lys 545 550 555 560

Ala Gly Glu Ile Trp Lys Gly Met Ser Lys Glu Lys Lys Glu Glu Trp
565 570 575

Asp Arg Lys Ala Glu Asp Ala Arg Arg Asp Tyr Glu Lys Ala Met Lys 580 585 590

Glu Tyr Glu Gly Gly Arg Gly Glu Ser Ser Lys Arg Asp Lys Ser Lys
595 600 605

Lys Lys Lys Val Lys Val Lys Met Glu Lys Lys Ser Thr Pro Ser 610 615 620

Arg Gly Ser Ser Ser Lys Ser Ser Ser Arg Gln Leu Ser Glu Ser Phe 625 630 635 640

Lys Ser Lys Glu Phe Val Ser Ser Asp Glu Ser Ser Ser Gly Glu Asn 645 650 655

Lys Ser Lys Lys Arg Arg Arg Ser Glu Asp Ser Glu Glu Glu Glu 660 665 670

Leu Ala Ser Thr Pro Pro Ser Ser Glu Asp Ser Ala Ser Gly Ser Asp 675 680 685

Glu

<210> 1202

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1202

Asn Leu Ser Glu Leu Leu Gln Ala Asp Phe Leu Gly Gln Gly Glu Ile
1 5 10 15

Met Val Leu Lys Cys Leu Ile Arg Ser His Thr Gln Phe Gln Val His 20 25 30

Tyr Ser Lys Ser Met Xaa Thr Ala Pro Thr Ala Thr Asn Leu Leu Leu

35 40 45

Pro Ser Arg Val Ala Cys Thr Ile Phe Ile Ala Cys Pro Gly Trp Val 50 55 60

Gly 65

<210> 1203

<211> 379

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (255)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1203

Gly Arg Leu Arg Ala Leu Ala Leu Ala Val Ser Ala Pro Gly Leu Thr
1 5 10 15

Phe Lys Met Val His Ala Glu Ala Phe Ser Arg Pro Leu Ser Arg Asn 20 25 30

Glu Val Val Gly Leu Ile Phe Arg Leu Thr Ile Phe Gly Ala Val Thr 35 40 45

Tyr Phe Thr Ile Lys Trp Met Val Asp Ala Ile Asp Pro Thr Arg Lys
-50 55 60

Gln Lys Val Glu Ala Gln Lys Gln Ala Glu Lys Leu Met Lys Gln Ile 65 70 75 80

Gly Val Lys Asn Val Lys Leu Ser Glu Tyr Glu Met Ser Ile Ala Ala 85 90 95

His Leu Val Asp Pro Leu Asn Met His Val Thr Trp Ser Asp Ile Ala 100 105 110

Gly Leu Asp Asp Val Ile Thr Asp Leu Lys Asp Thr Val Ile Leu Pro 115 120 125

Ile Lys Lys Xaa His Leu Phe Glu Asn Ser Arg Leu Leu Gln Pro Pro

130 135 140

Lys Gly Val Leu Leu Tyr Gly Pro Pro Gly Cys Gly Lys Thr Leu Ile 145 150 155 160

Ala Lys Ala Thr Ala Lys Glu Ala Gly Cys Arg Phe Ile Asn Leu Gln
165 170 175

Pro Ser Thr Leu Thr Asp Lys Trp Tyr Gly Glu Ser Gln Lys Leu Ala 180 185 190

Ala Ala Val Phe Ser Leu Ala Ile Lys Leu Gln Pro Ser Ile Ile Phe 195 200 205

Ile Asp Glu Ile Asp Ser Phe Leu Arg Asn Arg Ser Ser Ser Asp His 210 215 220

Glu Ala Thr Ala Met Met Lys Ala Gln Phe Met Ser Leu Trp Asp Gly 225 230 235 240

Leu Asp Thr Asp His Ser Cys Gln Val Ile Val Met Gly Ala Xaa Asn 245 250 255

Arg Pro Gln Asp Leu Asp Ser Ala Ile Met Arg Arg Met Pro Thr Arg 260 265 270

Phe His Ile Asn Gln Pro Ala Leu Lys Gln Arg Glu Ala İle Leu Lys 275 280 285

Leu Ile Leu Lys Asn Glu Asn Val Asp Arg His Val Asp Leu Leu Glu 290 · 295 300

Val Ala Gln Glu Thr Asp Gly Phe Ser Gly Ser Asp Leu Lys Glu Met 305 310 315 320

Cys Arg Asp Ala Ala Leu Leu Cys Val Arg Glu Tyr Val Asn Ser Thr 325 330 335

Ser Glu Glu Ser His Asp Glu Asp Glu Ile Arg Pro Val Gln Gln 340 345 350

Asp Leu His Arg Ala Ile Glu Lys Met Lys Lys Ser Lys Asp Ala Ala 355 360 365

Phe Gln Asn Val Leu Thr His Val Cys Leu Asp 370 375

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<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 1204
Leu Ser Xaa Pro Gly Ala Trp Phe Tyr Val Pro Val Ala Met Phe Pro
                                      10
Val Ser Ser Gly Cys Phe Gln Glu Gln Glu Thr Asn Lys Ser Leu
Thr Leu Leu Arg Cys Ser Gln Arg Asp Thr Ser Pro Leu Met Asp Gly
                              40
Gln Thr Trp Ala Gly Ser Val Ser Leu Asn His Pro Pro Leu Pro Gln
     50
Leu Pro Thr Thr Asp Thr Ser Asp Asp Thr Pro Gly Lys
 65
                     70
                                          75
<210> 1205
<211> 305
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (222)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (223)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (227)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (235)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220> <221> SITE <222> (239) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (273) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (277) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (284) <223> Xaa equals any of the naturally occurring L-amino acids <400> 1205 Phe Thr Ser Val Ser Cys Thr Ser Thr Ser Ser Phe Ser Ser Asn Ala 10 15 Ala Gln Arg Phe Phe Leu Leu His Gly Thr Lys Cys Asn Tyr Ser Pro 20 25 Gly Ser Pro Val Tyr Phe Cys Tyr Glu Ser Ser Tyr Phe Asn Thr Thr 40 Ser Arg Pro Thr Ser Cys Ser Ala Val Ser Ser Ala Val Asn Ile Met Asn Gly Ser Gln Met His Ile Asn Pro Ala Asn Lys Ser Leu Pro Pro 65 70 75 Thr Phe Gly Pro Ala Thr Leu Phe Asn His Phe Ser Ser Leu Phe Asp 85 90 95 Ser Ser Gln Val Pro Ala Asn Gln Gly Trp Gly Asp Gly Pro Leu Ser 100 105 110 Ser Arg Val Ala Thr Asp Ala Ser Phe Thr Val Gln Ser Ala Phe Leu 115 120 125 Gly Asn Ser Val Leu Gly His Leu Glu Asn Met His Pro Asp Asn Ser 135 Lys Ala Pro Gly Phe Arg Pro Pro Ser Gln Arg Val Ser Thr Ser Pro 145 150 155 160

Val Gly Leu Pro Ser Ile Asp Pro Ser Gly Ser Ser Pro Ser Ser Ser 165 170 175 Ser Ala Pro Leu Ala Ser Phe Ser Gly Ile Pro Gly Thr Arg Val Phe 180 185 Leu Gln Gly Pro Ala Pro Val Gly Thr Pro Ser Phe Asn Arg Gln His 200 205 Phe Ser Pro His Pro Trp Thr Ser Ala Ser Asn Ser Cys Xaa Xaa Pro 220 Ile Pro Xaa Val Ser Ser Gly Ser Ser Ser Xaa Leu Ser Ala Xaa Ser 230 235 Cys Pro Thr Asn Val Gly Ala Asn Gln Lys Gly Val Ser Ala Ser Gln Gly Phe Gly Lys Val Thr Phe Pro Gln Leu Gly Asn Arg Arg Thr 260 265 270 Xaa Ala Arg Ile Xaa Gly Lys Gly Gly Gly Phe Xaa Trp His Lys Ala 275 280 285 Pro Gly Gly Asn Gln Phe Phe Cys Ser Val Ser Leu Trp Asp Lys Val 290 295 300 Gly 305 <210> 1206 <211> 61 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (15) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (33) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

<222> (42)

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1206

Arg Glu His Ser Ala Phe Asp Leu Trp Glu Ile Ser Ser Trp Xaa Pro 1 5 10 15

Trp Cys Cys Thr Asp His Gln Glu Glu Leu Lys Ser Ser Gly Asn Leu 20 25 30

Xaa Lys Ile Lys Ser Pro Pro Ala Arg Xaa Leu Ser Lys Ile Thr Gly
35 40 45

Arg Leu Leu Xaa Gln His Val Xaa Glu Cys Ala Ser Gly 50 55 60

<210> 1207

<211> 177

<212> PRT

<213> Homo sapiens

<400> 1207

Asn Ser Ala Gln Gly Met Ala Gly Ser Pro Glu Leu Val Val Leu Asp 1 5 10 15

Pro Pro Trp Asp Lys Glu Leu Ala Ala Gly Thr Glu Ser Gln Ala Leu 20 25 30

Val Ser Ala Thr Pro Arg Glu Asp Phe Arg Val Arg Cys Thr Ala Lys
35 40 45

Arg Ala Val Thr Glu Met Leu Gln Leu Cys Gly Arg Phe Val Gln Lys
50 55 60

Leu Gly Asp Ala Leu Pro Glu Glu Ile Arg Glu Pro Ala Leu Arg Asp
65 70 75 80

Ala Gln Trp Thr Phe Glu Ser Ala Val Gln Glu Asn Ile Ser Ile Asn 85 90 95

Gly Gln Ala Trp Gln Glu Ala Ser Asp Asn Cys Phe Met Asp Ser Asp

100 105 110

Ile Lys Val Leu Glu Asp Gln Phe Asp Glu Ile Ile Val Asp Ile Ala 115 120 125

Thr Lys Arg Lys Gln Tyr Pro Arg Lys Ile Leu Glu Cys Val Ile Lys
130 135 140

Thr Ile Lys Ala Lys Gln Glu Ile Leu Lys Gln Tyr His Pro Val Val 145 150 155 160

His Pro Leu Asp Leu Lys Tyr Asp Pro Asp Pro Val Leu Ala Cys Ile 165 170 175

Asn

<210> 1208

<211> 288

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (277)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1208 -

Pro His Arg Val Asp Thr Arg Arg Arg Asp Pro Val Pro Arg Ser Arg
1 10 15

Ala Leu Ser His Gly Thr Gly Arg Val Gly Ala Ala Ala Gly Glu Ser 20 25 30

Ser Arg Ala Pro Arg Cys Trp Ser Gly Ser Arg Pro Arg Ala Pro Ala
35 40 45

Asp Pro Pro Arg His Arg Pro Leu Leu Cys Leu Ser Arg Arg Gly Ser 50 55 60

Pro Pro His His Leu Gly Cys Leu Leu Gly Glu Ser Phe Met Gln Leu 65 70 75 80

Gln Gln Arg Leu Leu Arg Glu Lys Glu Ala Lys Ile Arg Lys Ala Leu 85 90 95

Asp Arg Leu Arg Lys Lys Arg His Leu Leu Arg Arg Gln Arg Thr Arg
100 105 110

Arg Glu Phe Pro Val Ile Ser Val Val Gly Tyr Thr Asn Cys Gly Lys 115 120 125

Thr Thr Leu Ile Lys Ala Leu Thr Gly Asp Ala Ala Ile Gln Pro Arg 130 135 140

Asp Gln Leu Phe Ala Thr Leu Asp Val Thr Ala His Ala Gly Thr Leu 145 150 155 160

Pro Ser Arg Met Thr Val Leu Tyr Val Asp Thr Ile Gly Phe Leu Ser 165 170 175

Gln Leu Pro His Gly Leu Ile Glu Ser Phe Ser Ala Thr Leu Glu Asp 180 185 190

Val Ala His Ser Asp Leu Ile Leu His Val Arg Asp Val Ser His Pro 195 200 205

Glu Ala Glu Leu Gln Lys Cys Ser Val Leu Ser Thr Leu Arg Gly Leu 210 215 220

Gln Leu Pro Ala Pro Leu Leu Asp Ser Met Val Glu Val His Asn Lys 225 230 235 240

Val Asp Leu Val Pro Gly Tyr Ser Pro Thr Glu Pro Asn Val Val Pro
245 250 255

Val Ser Ala Leu Arg Gly His Gly Leu Gln Glu Leu Lys Leu Ser Ser 260 265 270

Met Arg Arg Phe Xaa Arg Arg Gly Asp Arg Ser Ser Leu Ser Val 275 280 285

<210> 1209

<211> 327

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (261)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1209

Asn Ile Leu Gly Gly Gly Lys Trp Phe Leu Arg Gly Ile Leu Leu Ile 1 5 10 15

Leu Pro Gln Val Tyr Leu Pro Cys Val Leu Gln Thr Lys Xaa Arg Tyr
20 25 30

Val Gly Tyr Met Tyr Glu Thr Leu Asp Gln Lys Asp Pro Val Phe Asp 35 40 45

Ala Lys Gly Ile Glu Thr Val Arg Arg Asp Ser Cys Pro Ala Val Ser 50 55 60

Lys Ile Leu Glu Arg Ser Leu Lys Leu Leu Phe Glu Thr Arg Asp Ile
65 70 75 80

Ser Leu Ile Lys Gln Tyr Val Gln Arg Gln Cys Met Lys Leu Leu Glu 85 90 95

Gly Lys Ala Ser Ile Gln Asp Phe Ile Phe Ala Lys Glu Tyr Arg Gly
100 105 110

Ser Phe Ser Tyr Lys Pro Gly Ala Cys Val Pro Ala Leu Glu Leu Thr 115 120 125

Arg Lys Met Leu Thr Tyr Asp Arg Ser Glu Pro Gln Val Gly Glu 130 135 140

Arg Val Pro Tyr Val Ile Ile Tyr Gly Thr Pro Gly Val Pro Leu Ile 145 150 155 160

Gln Leu Val Arg Arg Pro Val Glu Val Leu Gln Asp Pro Thr Leu Arg 165 170 175

Leu Asn Ala Thr Tyr Tyr Ile Thr Lys Gln Ile Leu Pro Pro Leu Ala 180 185 190

Arg Ile Phe Ser Leu Ile Gly Ile Asp Val Phe Ser Trp Tyr His Glu 195 200 205

Leu Pro Arg Ile His Lys Ala Thr Ser Ser Ser Arg Ser Glu Pro Glu 210 215 220

Gly Arg Lys Gly Thr Ile Ser Gln Tyr Phe Thr Thr Leu His Cys Pro 225 230 235 240

Val Cys Asp Asp Leu Thr Gln His Gly Ile Cys Ser Lys Cys Arg Ser 245 250 255 Gln Pro Gln His Xaa Ala Val Ile Leu Asn Gln Glu Ile Arg Glu Leu 260 265 270

Glu Arg Gln Glu Gln Leu Val Lys Ile Cys Lys Asn Cys Thr Gly
275 280 285

Cys Phe Asp Arg His Ile Pro Cys Val Ser Leu Asn Cys Pro Val Leu 290 295 300

Phe Lys Leu Ser Arg Val Asn Arg Glu Leu Ser Lys Ala Pro Tyr Leu 305 310 315 320

Arg Gln Leu Leu Asp Gln Phe 325

<210> 1210

<211> 676

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (374)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1210

Pro Val Leu Arg Thr His Pro Gly Pro Gln Ser Leu Pro Arg Val Pro 1 5 10 15

Gly Val Pro Cys Gly Gly Leu Leu Glu Pro Leu Ser Arg Ala Glu Val 20 25 30

Ser Pro Arg Leu Gly Leu Arg Arg Asp Leu Leu Gly Gly Met Ala Pro 35 40 45

Pro Gly Ser Ser Thr Val Phe Leu Leu Ala Leu Thr Ile Ile Ala Ser 50 55 60

Thr Trp Ala Leu Thr Pro Thr His Tyr Leu Thr Lys His Asp Val Glu
65 70 75 80

Arg Leu Lys Ala Ser Leu Asp Arg Pro Phe Thr Asn Leu Glu Ser Ala 85 90 95

Phe Tyr Ser Ile Val Gly Leu Ser Ser Leu Gly Ala Gln Val Pro Asp 100 105 110

Ala Lys Lys Ala Cys Thr Tyr Ile Arg Ser Asn Leu Asp Pro Ser Asn 115 120 125

Val	Asp 130		Leu	Phe	Tyr	Ala 135		Gln	Ala	Ser	Gln 140		Leu	Ser	Gly
Cys 145		Ile	Ser	Ile	Ser 150		Glu	Thr	Lys	Asp 155	Leu	Leu	Leu	Ala	Ala 160
Val	Ser	Glu	Asp	Ser 165	Ser	Val	Thr	Gln	Ile 170	-	His	Ala	Val	Ala 175	Ala
Leu	Ser	Gly	Phe 180	Gly	Leu	Pro	Leu	Ala 185	Ser	Gln	Glu	Ala	Leu 190	Ser	Ala
Leu	Thr	Ala 195	Arg	Leu	Ser	Lys	Glu 200	Glu	Thr	Val	Leu	Ala 205	Thr	Val	Gln
Ala	Leu 210	Gln	Thr	Ala	Ser	His 215	Leu	Ser	Gln	Gln	Ala 220	Asp	Leu	Arg	Ser
Ile 225	Val	Glu	Glu	Ile	Glu 230	Asp	Leu	Val	Ala	Arg 235	Leu	Asp	Glu	Leu	Gly 240
Gly	Val	Tyr	Leu	Gln 245	Phe	Glu	Glu	Gly	Leu 250	Glu	Thr	Thr	Ala	Leu 255	Phe
Val	Ala	Ala	Thr 260	Tyr	Lys	Leu	Met	Asp 265	His	Val	Gly	Thr	Glu 270	Pro	Ser
Ile	Lys	Glu 275	Asp	Gln	Val	Ile	Gln 280	Leu	Met	Asn	Ala	Ile 285	Phe	Ser	Lys
Lys	Asn 290	Phe	Glu	Ser	Leu	Ser 295	Glu	Ala	Phe	Ser	Val 300	Ala	Ser	Ala	Ala
Ala 305	Val	Leu	Ser	His	Asn 310	Arg	Tyr	His	Val	Pro 315	Val	Val	Val	Val	Pro 320
Glu	Gly	Ser	Ala	Ser 325	Asp	Thr	His	Glu	Gln 330	Ala	Ile	Leu	Arg	Leu 335	Gln
Val	Thr	Asn	Val 340	Leu	Ser	Gln	Pro	Leu 345	Thr	Gln	Ala	Thr	Val 350	Lys	Leu
Glu	His	Ala 355	Lys	Ser	Val	Ala	Ser 360	Arg	Ala	Thr	Val	Leu 365	Gln	Lys	Thr
Ser	Phe 370	Thr	Pro	Val	Xaa	Asp 375	Val	Phe	Glu	Leu	Asn 380	Phe	Met	Asn	Val
Lys 385	Phe	Ser	Ser	Gly	Tyr 390	Tyr	Asp	Phe	Leu	Val 395	Glu	Val	Glu	Gly	Asp 400